

TUBERCULOSIS IN HENS.

What is wrong with our hens? They become mopey and white about head, and although they feed heartily enough, they become very poor and so weak they cannot fly onto roost, and if let will live for months in this condition. Their droppings are dry, with a greenish taint; liver enlarged and rotten; heart with white spots.

Perth Co., Ont.

A SUBSCRIBER.

Ans.—The symptoms seem to indicate tuberculosis, but it is impossible to diagnose on such an indefinite description. It would be well to send one of the affected birds for examination to Prof. F. C. Harrison, Bacteriologist, O. A. C., Guelph, who would give a full description of disease and prescribe a remedy, or at least the best treatment.

MUNICIPALITY TAKING GRAVEL.

A pathmaster opened a gravel pit on concession road allowance. The farmer owning land opposite does not wish to sell land to extend gravel pit. Can he be forced to sell? 2. What is the law regarding gravel pits for roadwork use?

Ans.—1. Yes. 2. Every municipal council may pass by-laws for searching for and taking such gravel, stone or other material within the municipality as may be necessary for keeping in repair any road or highway within the municipality; the right of entry upon lands, as well as the price or damage to be paid to any person for such materials, if not agreed upon by the parties concerned, to be settled by arbitration, under the provisions of the Municipal Act.

"CREAMERY" OR "DAIRY" BUTTER.

Is it unlawful for farmers to put "creamery butter" on their butter when using cream separator and taking cream from milk fresh from cow? The cream is ripened, butter made and salted same as at creamery, 6½ miles away, where they only separate twice per week. The "Advocate" is without doubt the best farmer's paper in America.

Oxford Co.

T. W. J.

Ans.—We believe such an act would come under the Criminal Code relating to false trade description, and would render the person liable to forfeiture of goods, fine or imprisonment, or both.

HOW TO BRACE A SILO.

I noticed, in your last issue, someone asking how to make a silo stand without being braced to some building. I think it a good plan to put two posts, 8 x 8 inches, into the ground 4½ or 5 feet, the distance apart that you want the door, letting them reach to the top of silo. This will keep it from blowing over and make it so you can have doors from top to bottom.

Elgin Co., Ont.

CAMBY CHARLTON.

WHITE AUSTRALIAN OATS.

I got some white Australian side oats from Mr. Wm. Weld about thirty years ago. I have sown the same oats every year since on my farm. They never rusted until last summer. Where can I procure some true to name?

J. E. LEWARS.

Ans.—Some reader having a good sample of the above oats suitable for seed should make the fact known through our advertising columns.

COLLECTING A CLAIM.

Supposing B owes A some money, and he won't pay the amount, can A collect it from B's boss (the man whom B works for), providing the boss is willing to do so?

SUBSCRIBER.

Wellington Co., Ont.

Ans.—Yes; but B's employer might not be safe in paying over the money without an order from B to do so, or an order of court directing such payment.

MARKETS.

Every reader is invited to write something for this department that other farmers ought to know. Do it while you think of it. Put it on a post card if you haven't time to put it in a letter.

FARM GOSSIP.

Road Improvement in Wentworth.

The County of Wentworth, Ont., has decided to submit a by-law in accordance with the recent act of the Legislature designed to improve the roadways by offering a Government grant to municipalities under certain conditions. A committee of the Wentworth council, after holding a dozen meetings and spending over a thousand dollars in investigating the subject, has made a report recommending that the Government's offer be taken advantage of. On the county's agreeing to expend \$40,000, the Government is committed to contribute \$20,000 additional. The Wentworth council proposes to go beyond that, and will bring the total sum up to \$100,000 for the betterment of the roads of the county. The Act provides that the vote of the ratepayers of the county must be taken before the Government money can be secured, and the Wentworth council have provided for the taking of such a vote. It remains to be seen how the ratepayers will deal with the matter.

Death of Andrew Chisholm.

One of the best known and most respected farmers of North Dumfries, Waterloo Co., Ont., Mr. Andrew Chisholm, died on Jan. 30th, aged 46 years and 1½ months. For some years past he had been the efficient secretary of the South Waterloo Farmers' Institute. He was a member of Knox Presbyterian Church, Galt.

Farmers' Institute Notes.

BY SUPT. G. C. CREELMAN.

This time last year we were congratulating ourselves on the success of the Farmers' Institute work. This year we are as far ahead of last year as last year was ahead of any previous record. The speakers, in writing regarding their work, say they have never before had such enthusiastic audiences, and secretaries, in sending in their lists of members, are adding names of farmers who had never attended an Institute meeting up to this time.

NORTH LEEDS AND GRENVILLE.—Mr. J. B. Arnold, the secretary of this Institute, in reporting the meeting, says: "We had good weather, and 985 people in all were present at the supplementary meetings."

HALTON.—This Institute led the entire list in membership last year, and the secretary writes that he expects to do even better in 1902. This Institute can in more ways than one be an object lesson to all other Institutes. Although it is a small county, yet the membership for the first six months last year was 748. This was accomplished by electing to the Board only such directors as were willing to work. Before each meeting opened, the local director had secured a list of members, had the hall engaged and heated, and was there when the speakers and secretary arrived, with an audience ready to start. This is business, and we would be glad to see other Institutes putting themselves on the same business footing.

Mr. T. G. Raynor, who has gone through this county, writes: "The limit of the halls is the limit of the crowds at our meetings. About 600 at Milton last night; discussions are livelier than ever. The question-drawer is very popular, and we introduce it at the commencement of the evening meeting. My companion, Mr. Clark, is meeting interested audiences everywhere on the poultry question. His practical demonstrations of killing, plucking and dressing for the market are very popular."

PEEL.—Mr. J. E. Orr, delegate in Division 7 A, says: "We have been in Peel nine days, and the interest has never abated a moment throughout the series. A membership of over 500 had already been secured when I left, and Secretary McCulloch was as enthusiastic as ever. Miss Agnes Smith, of Hamilton, did splendid work in demonstrating simple methods of cooking at the separate meetings for ladies held in the afternoon."

"In the evening, the Women's and Farmers' Institutes joined and held a union meeting. This is working very successfully, and has solved the entertainment problem in connection with the evening sessions."

WEST NIPISSING.—This is an Institute we organized only a year ago last summer, and yet the secretary writes, sending in a long list of names, with the remark: "We have had good programmes and enthusiastic meetings. There were 140 at the meeting in North Bay and 35 at Sturgeon Falls, 32 at Verner and 28 at Warren."

WEST BRUCE.—In this district we always expect good meetings and the delegates are never disappointed. Mr. John Douglas, the secretary, writes to say that at their Port Elgin meeting the weather was stormy and kept some away. Nevertheless, he reports 200 present in the afternoon and 350 at night. We often wonder what West Bruce people would do with the crowd if the weather was always fine when their meetings are being held.

Mr. G. C. Caston and Mr. F. C. Elford were the delegates, and in reporting the meeting the secretary says: "Never did a deputation receive more attention than this one, and never were speakers more appreciated. They both did splendid work, and much good will result. The interest in Institute work is increasing yearly, and this is very encouraging."

NORTH NORFOLK.—In writing of the Courtland meeting held on January 10th, the secretary says: "The hall was not large enough to accommodate our members at the evening meeting, and at Delhi we had 128 in the afternoon and 135 at night." "This," remarks Mr. Culver, "is our weakest Institute point. The discussions at this place were spirited, especially at the conclusion of Mr. Stevenson's address on 'Feeding the Dairy Cow Economically.'"

WEST DURHAM.—The secretary, Mr. Hoar, says: "We had good meetings. We had lively discussions on 'Deep vs. Shallow Cultivation,' on the 'Four or Six Years' Rotation of Crops,' and on the 'Curing of Hay.' Mr. Glendinning gave as his experience that clover could be cut and hauled in the same day. He had tried this and found it did not heat or mildew, and that it was the best hay he ever took out of a mow."

This created quite a discussion, and the secretary writes that many members were convinced that they had made a mistake in leaving their clover hay in the field too long. An encouraging feature of these meetings was the large attendance, both afternoon and evening, of young people. The young men particularly seemed to take a great interest in the work of the Institute.

NORTH PERTH.—The secretary of this Institute reports at his January meetings an attendance of 500 at Milverton and 550 at Shakespeare. He reports good discussions following Mr. Drummond's address on 'Cultivation of the Soil,' Mr. Cottrell's address on 'Poultry,' and Mr. Elmer Lick's on 'Handling and Marketing of Fruit.' Mr. Pugh reports a material increase in membership over former years. Accompanying the secretary's letter was a list containing 164 names of members for 1902.

NORTH BRANT.—This Institute confines its regular meetings to the town of St. George, and while we would like to see them spread out more, we must admit that they always have good meetings in that place. At their meeting this year there were 210 present at the day meeting and 350 at night. Mr. Raynor discussed the 'Value of Foods,' 'Model Methods of Soil Cultivation,' 'Selection and Management of Dairy Cows,' while Mr. J. W. Clark, of Onondaga, took up the subject of 'Poultry Raising and Fattening for the English Market,' and the 'Management of Manure.'

N. B. Dairy School.

Mr. Harvey Mitchell, Superintendent of the New Brunswick Dairy School at Sussex, has issued the announcement for the 1902 season. The staff consists of the following: Instructor in buttermaking, L. Cyriaque Daigle; cheesemaking, J. Frank Lilley; separators and boilers, Geo. Ransom; milk testing, Harvey Mitchell; animal husbandry, Robt. Robertson. The factory course begins Feb. 25th, and closes March 26th; home dairy course begins Feb. 25th, closes March 7th. The number of pupils for the course is limited to 60. We trust the classes will be well filled. Tuition is free to all Maritime students, and the courses are very complete. Good board at very reasonable terms can be secured in the immediate neighborhood of the school.

Notes from Ottawa.

THE WEST FLOURISHING.—Mr. W. V. Gordon, Winnipeg, formerly of Montreal, on being interviewed, said: "The future of Manitoba and N.-W. T. from an agricultural point of view is exceedingly bright. The wealth brought into the country as a result of the magnificent grain crop last year is enormous. As a grain-growing country, I believe Western Canada cannot be beaten by any other country. It is a pity that more is not known in the East of the wonderful resources of the West. I firmly believe before very long there will be enough wheat grown in Canada to supply the demands of the whole Empire. That is a consummation that we should all keep in mind. We had a marvellously good crop this year, but a very much larger area will be under cultivation next season, and if climatic conditions are equal to what we enjoyed last year, there will be an enormous crop in 1902. There is one feature about the development of the West that should be noted, and that is the manner in which the Americans are beginning to swarm across the line and snap up the best farming lands; many thousands have moved in during the past three or four years. Winnipeg is a growing and prosperous city, and gives promise of becoming a great commercial center in the very near future."

RUSSELL COUNTY AGRICULTURE.—That the people in the County of Russell, Ont., take considerable enjoyment out of any event held with a view of advancing agriculture was clearly evidenced when fully five hundred people attended the banquet held in the Village of Metcalf at the close of the annual meeting of the Russell Agricultural Society. The business meeting, which was held in the afternoon, was presided over by Mr. W. C. Edwards, M. P., of Rockland, the largest cattle breeder in Eastern Ontario. Mr. Edwards has been president of the Society for the past twenty years, and was again the unanimous choice of the members. The report presented showed the Society to be in a flourishing condition financially, and the new board of directors decided to enlarge and improve the main building, and also to erect a suitable building for the accommodation of the live stock. Mr. Edwards, in addressing the meeting in the afternoon, congratulated the members on the advancement they had made in agriculture, and advised the directors to increase the prize list, which, if done, said Mr. Edwards, would have a tendency to make the fair more popular. The crowning event of the day was the banquet in the evening, which was attended by the most representative gathering that has perhaps ever convened in the county for a considerable length of time. The hall was lavishly decorated with bunting, evergreens and flags, which were artistically entwined. Conspicuous among the worded mottoes on the walls were noticed "Welcome to Our Guests," "Speed the Plow," and "Our Motto is to Advance in Agriculture." The object of the Society in holding the banquet was to celebrate the winning of the silken banner by the county for making the best exhibit of live stock in the Ottawa Valley and district in a judging competition at the recent fall exhibitions, presented by the Ottawa Valley Journal. A popular and pleasing innovation was seen in the presence of ladies and many of the speakers referred to them as being of great assistance to the Society in the work they were doing.

NOTES.

Dr. Fletcher and Prof. Shutt attended the annual meeting of the Fruit-growers' Association at Wolfville, N. S., and Prof. Grisdale, the Farmers' and Dairymen's Association at Fredericton, N. B. Mr. A. G. Gilbert, who is addressing Farmers' Institute meetings in New Brunswick this month, writes that the meetings are being largely attended, and, everything taken into consideration, are very successful.

A number of live-stock meetings in Winnipeg (commencing on the 21st of Feb.) will be attended by Prof. Grisdale, Mr. McCoun, Dr. Fletcher and Mr. Shutt, of the Central Experimental Farm, Ottawa.

Dr. A. E. James, who has been Government Veterinary Surgeon for the Department of Agriculture for the past two years, was granted a commission as veterinary lieutenant on the third contingent. He sailed with Major Merritt for South Africa on the Manhattan.

The Dominion Grange.

The 27th annual meeting of the Dominion Grange was held in Toronto, January 29 and 30. Mr. Jabel Robinson, M. P., the Master, presiding. He reported 76 Granges working, commended the Ontario Agr. College, condemned the growth of trusts and combines, advocated a fairer system of taxation, believed that manufacturers now required but little further assistance from the Government, but contended that we should buy from those who buy from us, unless our goods would be injured thereby. Railroads, he said, should be assumed by the Government and controlled by an independent commission.

Mr. George Fisher spoke on the subject of spraying. He had an apparatus with him to demonstrate his remarks, which dealt largely with the fraudulent adulteration of Paris green. The fraud practiced by the sellers and some manufacturers had shaken the confidence of farmers in the effectiveness of spraying. This was to be regretted, as the farmers were just commencing to learn the proper method of spraying, and, of course, with unadulterated materials would obtain good results. But, like nearly everything, as the demand for Paris green increased, in consequence of a general use for this purpose, the quality dropped.

After a discussion on the subject, the Grange decided unanimously to urge upon the Government the importance of giving the farmers protection against adulterated spraying materials.

It was decided to have a committee wait upon the Government to compel railway companies to keep their lines equipped with properly constructed cattle guards. Those present expressed an antipathy against going to law to recover the damages caused by the killing of their cattle on railway tracks. Experience proved that it was usually necessary to mortgage their farms to fight the cases out to the end.

Encouraging reports were received from the agricultural and educational committees.

The election of officers resulted as follows: Master, Jabel Robinson, Middlemarch; Overseer, John McDougall, Milton; Secretary, Wm. F. Fisher, Burlington; Treasurer, James Fallis, Newbridge; Lecturer, Jos. Todd, Gifford; Chaplain, W. J. Goodfellow, Craigville; Steward, J. A. Carswell, Newbridge; Assistant Steward, W. A. E. Perry, Freeman; Gatekeeper, T. C. Osborne, Whitby; Cares, Mrs. J. Robinson, Middlemarch; Pomona, Mrs. W. Gray, Londesborough; Flora, Mrs. E. Brown, Whitby; L. A. S. Mrs. Warnica, Painswick; Auditors, J. M. Syme, Dalton, and Jas. Allen, Churchill; Ex. Com., Peter McDuffee, Omagh, and F. W. Fisher, Burlington.

The next meeting will be held in Toronto. A vigorous Grange extension campaign is to be instituted.

New Stock Yards Opened.

The new Union Stock Yards at Toronto Junction received their first consignment last week. The shipment, which included about 400 sheep and 100 lambs, arrived from Galt, en route to Montreal and the British markets.