

Agricultural News

P. E. I. Department of Agriculture

Parasites in Poultry

In last weeks column we dealt with External parasites of poultry, namely lice, mites and fleas. This week we will commence a discussion of round worms and tape worms.

Many species of round worms and tape worms are found in the intestinal tract of poultry. When these parasites are present in large numbers they draw heavily on the nutritive juices and the birds do not assimilate sufficient nourishment. Some worms attach themselves to the lining of the intestines causing injury and some hemorrhage. The constant irritation sometimes thickens the intestinal wall to such an extent that the opening of the bile ducts are closed. When not sufficient quantities of bile reach the intestines digestion is incomplete and the bird is undernourished. Such changes obviously are more or less chronic and are never fully repaired even though the parasites are removed. Worms also secrete two kinds of toxins or poisons. One of these destroys red blood cells, resulting in a pale condition on the skin, comb and wattles in heavily infested birds. The other poison affects the nerves. Its action is evidenced by a partial paralysis of the legs, blindness, or a twisting of the head to one side (wry neck). Worm infestations also render birds more susceptible to disease.

Some intestinal worms are so small that they can barely be seen without the aid of a microscope. Others are several inches in length. The general round worm has a direct life cycle. The female deposits its eggs in the intestines of the bird and these pass out with the droppings. It has been estimated that a single female worm of this species may lay around fifty million eggs. Under suitable conditions of moisture and temperature these eggs become infective within ten to twenty days and if picked up at this stage by chickens and turkeys will hatch in the intestines.

Another common round worm is found in the ceca (blind guts) of these worms are from 3/10 to 1/5 inches in length and may occur in very large numbers. The eggs become infective in seven days to ten days after passing out in the droppings. This worm is generally called the Cecal worm, and can harbor the causative agent of Blackhead in turkeys. This is a chief reason why chickens and turkeys should never be raised together.

There are several other species of poultry round worms. However, the two species mentioned here are the ones most commonly found in P.E.I. birds. The tape worms are fairly widespread. The adult tape worms of poultry differ considerably as to length (1/5 to 10 inches) and the number of segments vary from two to sixty or more. Tape worms attach their heads in the tissues of the intestinal lining; and the segments fartherest from the head are continually breaking off and passing out with the droppings. These segments contain the eggs. It is necessary for the eggs to be taken into the body of an intermediate host in order to become effective. Flies, slugs, snails, earthworms, grasshoppers, ground beetles, and dung beetles serve in this capacity for some of the tape worms. When a bird eats one of these infested intermediate hosts the life cycle of the tapes starts over again.

Control And Treatment No worm medicine for poultry should be used until it has been shown by post mortem examination what parasites are present in sufficient numbers to justify treatment. No treatment can be suggested until it is known what kind of worms are infesting the birds. Drugs effective in removing one parasite may not be of any value in removing others. Moreover, no satisfactory treatments are available for the removal of some species of Intestinal worms. The best control of Intestinal parasites has been obtained by those owners who have relied exclusively on preventative measures rather than on curative measures or treatments. Clean houses, clean ranges, clean properly balanced rations, pure water, proper disposal of sick and dead birds, the avoidance of overcrowding, the separating of growing birds from mature stock are important factors in the control of worm infestation. Worm remedies cannot take the place of sanitation. They do not destroy worm eggs but merely expel the parasites, or in the case of tape worms, only portions of the parasite. In fact, in properly managed poultry flocks there is not often need for worm remedies.

A Few Facts About Rural Women Last week-end ten Home Economics from Prince Edward Island attended the Maritime Home Economics Conference in Amherst, N.S. We were privileged to have as a speaker and discussion leader Dr. Helen Abell, Rural Sociologist with the Canada Department of Agriculture. Dr. Abell is working at present near Fredericton, N.B., in the area where the farms are

being purchased by the Government for the large new army camp. She is trying to find out what the farm families in the area intend to do; leave the farm entirely to take up another line of work or re-locate on a farm in another district; in order that the Government may plan some assistance for their rehabilitation. Before undertaking this project Dr. Abell made a study of farm communities in Alberta. She found that 14 farms in every one hundred had no adult women on them; and for every girl in her late teens who hoped to live on the farm there were four boys in the same age group who planned to farm. What will the lack of women in farm communities do to the social, educational and cultural life of these communities?

In looking at the Women's Institutes in Alberta Dr. Abell found that only one rural woman in ten belonged and that the average age of the members was 46 years. We know that a much larger proportion of rural women in Prince Edward Island belong to the Institute but the average age any younger? Membership is open to all rural women over 16. The Institute should serve as an educational medium and a social contact for the younger women who are bringing up young families as well as for the older women who perhaps have a little more time to devote to activities outside the home. Do sufficient numbers of younger women belong to the Institute in your community or is it being carried on by the women who have raised their families? What can be done to interest all of the young women in the community in institute work.

Things To Remember Number of Pounds to the bushel Alfalfa, - 60; Apples (Dried), - 24; Beans (White), - 60; Beans (Soy), - 60; Buckwheat, - 48; Clover seed, - 60; Corn (Brome), - 14; Corn (In ear), - 70; Cranberries, - 32; Coal, Char., - 20; Apples (Green), - 48; Barley - 48; Beans (Castor), - 48; Bran, - 20; Cherries, - 40; Clover (Sweet), - 60; Corn (Shelled), - 80; Corn Meal, - 50; Coal, Hard, - 80; Oats, - 40.

Flax Seed, - 56; Wheat (Crested), - 22; Hemp Seed, - 44; Lime, - 80; Oats, - 34; Orchard Grass, - 14; Peas, - 60; Red Top Seed, - 14; Timothy Seed, - 48; Turkeys, - 56; Grapes, - 40; Hemp Seed, - 44; Kafir Corn, - 66; Malt, - 38; Onions, 57; Peaches (Dried), - 33; Potatoes, - 60; Rye, - 56; Tomatoes, - 60; Wheat, - 60.

IN MEMORIAM CLIFFORD JUDSON JENKINS The people of Pownal and vicinity were saddened on July 31 to learn of the passing of Clifford Judson Jenkins after a short illness.

He was born on Sept. 23, 1906, the son of Albert Jenkins and Catherine (Judson) Jenkins. He leaves to mourn her great loss his sister Lillian, also two aunts, Mrs. James Mulrow, Charlottetown; Mrs. Perley Drake, Vernon; and three uncles, Inglis Jenkins, Worcester, Mass.; Abner Jenkins, Shrewsbury, Mass. and John W. Judson, Newark, New Jersey.

The funeral was held on August 2, conducted by Rev. Alasdair Johnston of the church of Scotland, assisted by the Rev. T. R. Goudge of the United Church, Pownal. Interment was in the family plot at Birch Hill cemetery. Pallbearers were Messrs. Arthur Moore, Robert Brown, Charles Jones, Ambrose MacMillan, Cyril Jones and Bruce Jones.

"Come unto me, all ye that labor and are heavy laden and I will give you rest." Lillian Jenkins wishes to thank all those who so kindly helped during the illness and death of her brother, Clifford Jenkins.

IN MEMORIAM In loving memory of our dear Mother, Mrs. Samuel Drummond, who passed away on October 21st, 1952.

There's never a day that passes But our memory fondly strays To thoughts of home and loved ones And joys of bygone days. We can picture our dear mother Standing by the open door With a smile of love and welcome. But her face we'll see no more. And though we know she is happy Still we miss her more each day. None on earth can e'er replace her. She is in our hearts to stay. Sadly missed by Addie and Gladys.

Card Of Thanks I wish to express my most sincere thanks to Rev. Fathers BUIOT, LeClair and the Nurses of Prince County Hospital for their kindness and care to my deceased husband while a patient there. Also to my relatives, neighbors and friends for their help. Masses, messages of sympathy and floral offerings.

Mrs. Arthur J. Arseneault, Wellington, P. E. I.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM Mrs. Arthur J. Arseneault, Wellington, P. E. I.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

THE CENTRAL GUARDIAN

COOK'S for Perfect Pictures JIMMY'S TAXI-Dial 7379 or 1370.

"YOUR DOLLAR BUYS MORE- at the HUGHES DRUG STORE"

GOING OUT OF BUSINESS SALE at Jack Cameron's.

FINDLAY coal and wood furnaces. Douglas Bros. and Jones.

COLORFUL SCARVES selling below cost at Jack Cameron's Sale.

JOHNSTON AND JOHNSTON'S Drug Store will be open until 8 P. M.

HEAR Mr. and Mrs. R. C. Parent's Illustrated Lecture, Zion Hall, Thursday, October 22nd, 8 P. M. Admission 40c. Zion W. A.

THE ANNUAL meeting and dinner of the P. E. I. Rural Beautification Society will be held at the Charlottetown Hotel at 7.00 p.m., Thursday, October 29. A few tickets are available for purchase by friends and former contestants. Application must be made by Oct. 24 to Miss Elizabeth Nisbet, c/o P.E.I. Libraries, Charlottetown.

MARRY IN TORONTO - The marriage took place Oct. 18 at the Metropolitan United Church, Toronto, of Alice Emily Hilliard, daughter of Mr. and Mrs. John Hilliard, Newfoundland, and John Hallett Whitten, son of Mr. and Mrs. Elmer Whitten of Coleman, Prince County, P.E.I. Rev. O. G. Brisbane officiated. Miss Laura Hilliard was maid of honor and Mrs. Ray Parker was bridesmaid, and Ray Parker was best man.

PREACHED IN SYDNEY - Rev. A. Frank MacLean and Mrs. MacLean returned yesterday from Sydney, N.S. where Mr. MacLean was the guest preacher at three services marking the opening of the new Sydney River Church which is one of the built up areas in close proximity to Sydney proper. The Church has been built and will be maintained by representative groups of the United Church, Baptist, Presbyterian, Anglican and Lutheran. Many people drove for miles from the various parts of Cape Breton to be present at the services which saw overflow congregations who listened by means of a public address system. Rev. Mr. and Mrs. MacLean had an opportunity to renew many friendships during their visit to Sydney. They occupied the Church of Saint Andrew's United Church for a number of years prior to their coming to Charlottetown.

PERSONALS Mr. and Mrs. Soren V. Judson of Vancouver, B.C., are visiting at Pownal with Mr. and Mrs. Ralph E. Judson. It is 33 years since Mr. Judson last visited his old home.

Mrs. Arthur Coffin, 320 Euston Street, returned Monday evening from a visit with her daughter Margaret, R.N., who resides in Milton, Mass.

IN MEMORIAM ALEXANDER EDWIN STEWART Sadness was felt in Dunstaffnage and vicinity on Sept. 21 when it was known that Alexander Edwin, son of the late Mr. and Mrs. John A. Stewart, had passed away suddenly. Although in failing health for some time his death was a shock.

A valued employee of McDonald and Rowe Woodworking Company for over 50 years, he won the esteem of a host of friends who will mourn his passing. But it will be in the home he will be more sadly missed. It was there where he was born.

The funeral was held at the United Church, Dunstaffnage. The pall bearers were fellow employees, Messrs. Alfred Weatherbie, Harry Cummings, Robert Gallant, Brighton McDougall, W. E. Webster, William Burgess. The service was conducted by Rev. J. M. Sproule, assisted by Rev. Lee McNaughton of Marshfield Presbyterian Church.

Three members of his family remain to cherish the love of a dear brother, Wallace and Harold (Pearl) Mrs. Wesley Matthew of York. He was tenderly laid beside his father and mother and four sisters, Lydia, Elizabeth, Myrtle and Margaret and one brother who gave his life in World War one.

A shadow over their lives is cast—their loved one gone forever. It's only good-night, dear friend. It's just as we used to say. We will see you again in the morning. At the dawn of a beautiful day.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.

IN MEMORIAM In memory of our Father, James W. F. McCallum, Sr., who passed away October 21st, 1952.

Always Remembered by Daughters Joyce and Jean.

IN MEMORIAM In loving memory of my husband J. W. F. McCallum, Sr., who passed away October 21st, 1952.

Ever Remembered by Belle and Family.

IN MEMORIAM In memory of our mother, Mrs. Samuel Drummond who entered into rest October 21st, 1952.

If God had given us to choose Our mother at our birth We would have chosen you of all. The mothers on the earth. Ever remembered by Minnie and Olive.