

# The Athens Reporter Riverdale

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 C. G. Young, Editor and Proprietor.

## ELOIDA

Lake Eloida, Feb. 12.—Mrs. Rapple and her daughter, Grace, spent the week-end at Andrew Henderson's.  
 Mr. Andrew Henderson spent a few days last week with his daughter, Mrs. Richardson, at Kingston.  
 Mrs. Harold Fortune and her mother, Mrs. Rowsome, spent Saturday afternoon with Mrs. C. Crummy.  
 Mrs. Ogle Webster attended the W. A. social evening held at Mrs. G. Earl's, Athens, on Monday night.  
 Miss Maud Alguire spent Tuesday evening at Mr. Ogle Webster's.  
 Mr. and Mrs. Manford Berney and son, Arthur, and Mrs. V. L. Mackie, were guests at the home of Mr. A. M. Whitmore, of Shendons.  
 Miss Anna Moore is still confined to her home on account of a severe cold.  
 A. Henderson and O. Webster were drawing ice on Monday to Dr. W. H. Bourne, Frankville.  
 Mr. and Mrs. Manford Berney and Arthur attended the dance held at A. Hutchings', below Athens, on Tuesday night.  
 Rev. Townshend and Mrs. Townshend were guests at the home of H. Crummy Thursday afternoon.  
 People were very much disappointed when January passed without a thaw, but it appears that February has made the atonement.  
 Mr. and Mrs. Manford Berney and son, Arthur, attended another hockey match at Delta Saturday.  
 Mr. Hubert Craig, medical student at Queen's University, Kingston, spent the week-end at his home here.  
 Mr. Wesley Henderson and family are moving this week to the Dave Johnston farm.  
 Miss Augusta Purcell, teacher at Temperance Lake, spent the week-end at her home.  
 Miss E. Whitmore spent Thursday evening at Mr. W. J. Moore's and Tuesday evening at Mr. O. Webster's.  
 The men of this community are busy snow-ploughing the roads.  
 Miss Vera Livingstone has gone to the Brockville General Hospital to receive treatment for her throat.  
 Mr. and Mrs. Manford Berney and Arthur were guests at the home of Mr. H. Crummy, Tuesday evening.

## GARRETTON

Garretton, Feb. 12.—Mr. and Mrs. Albert J. McMullen were Sunday visitors at the home of Harry Caldwell, R.R. No. 2, Brockville.  
 Lloyd McMullen attended the district meeting of the Orange Young Britons at Burrill's Rapids on Monday.  
 Mr. and Mrs. William Kinch visited friends near Merrickville on Sunday.  
 Percy Hall, who has been a patient in the Brockville General hospital, has returned home.  
 Owing to the thaw and rain, the roads, the mail carrier was unable to get through on Wednesday.  
 There was a dance at the home of H. Sophia's last evening. All report a good time.  
 Owing to the thaw and rain, the creek has overflowed its banks, spoiling the crossing in many places.  
 Veltou McMullen and Mr. Kelly, of the third concession, made a business trip here this week.

# People Welcome Return of Bus

Traffic to Prescott at Standstill for Twelve Days.

## NEWS NOTES OF DISTRICT

### Anniversary Services to be Conducted by the Philippsville Baptist Church.

Riverdale, Feb. 11.—The Prescott bus made its appearance through here to-day for the first time for about twelve days. It is hoped that it will be able to continue its regular trips.  
 Miss S. Marshall has returned from Newboro where she has been the guest of her sister for some time.  
 Fred. Henderson was in Picton last week.  
 C. D. Perrin, of this place, and J. S. Lane, of Prescott, spent a few days in Montreal last week.  
 Miss Gladys Tweedie, Toledo, and Miss N. Caldwell and father, H. Caldwell, South Augusta, were visitors in Riverdale this week.

## SPENCERVILLE

Spencerville, Feb. 11.—Mrs. W. R. Johnston left here on Monday morning as a delegate to attend the Horticultural convention in Toronto.  
 Rev. W. A. Morrison and T. E. Gilmore attended the funeral of Miss Ruby Workman at South Mountain on Monday.  
 Miss Marguerite Ferguson, of the continuation school here, spent the week-end with friends in Kingston.  
 A farewell party in honor of F. H. McKee and Miss Mary Boyd was held at the home of Rev. W. A. Morrison on Monday evening last.  
 A very pleasant time was spent in music and games, after which a dainty luncheon was served.  
 Mr. and Mrs. Joseph Whitley, Mr. and Mrs. Charles Whitley and daughter Kathryn, Mr. and Mrs. Charles McGuire, J. McGuire, and Mrs. M. L. Ferguson were entertained to tea on Monday eve by Mr. and Mrs. R. Connell and Mrs. H. Fraser.  
 Miss G. Plumb, of Prescott, is the guest of Miss Carson, of this place.  
 A few of the young people of Ventnor and this place were entertained by H. Baldwin at his boarding house on Friday evening last.  
 Owing to the soft weather the moccasin dance, which was to have been held on the rink here last Tuesday night, was postponed until a later date.  
 Mrs. William Jackson spent a few days in Prescott this week, the guest of her sister-in-law, Miss D. Jackson.  
 The W.M.S. ladies of the Methodist church here invited the ladies of Roebuck and Crystal Rock societies to meet in the Sunday school rooms of the church on Friday evening last.  
 A splendid programme was given by the Roebuck ladies after which a dainty lunch was served and a social hour spent together.  
 Mrs. George Drummond, of Roebuck, visited friends here recently.

## PHILIPPSVILLE

Philippsville, Feb. 12.—The congregation of the Baptist church purpose holding anniversary services on the 22nd and 23rd of this month.  
 Owing to the very bad condition of the weather and roads, the regular monthly meeting of the Women's Institute, postponed from Wednesday, will be held next week.  
 George Poole, of Forfar, spent a part of last week here at the home of his sister, Mrs. Morley Willets, while recuperating from an accident which he received while at work in the woods recently.  
 Miss Margaret Nolan is at Forfar station on nursing duty.  
 Mrs. H. C. Davidson was a Brockville visitor this week.  
 M. H. Seed left for his home in Toronto on Sunday night, after having spent a short time here with relatives.  
 Miss Katie Myers, R.N., has returned from Daytown, where she was on professional duty.  
 The regular monthly meeting of the auxiliary of the W.M.S. was held at the home of Mrs. E. A. Whitmore on Wednesday afternoon of last week.  
 A. E. Haskins is improving from injuries received in a hockey match at Delta last week.  
 Mr. and Mrs. William Tackaberry are preparing to move from their farm to their village property here, and Mr. and Mrs. Clifford Freeman will take charge of the farm.

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# HOW T. B. MAY BE SPREAD

Careful Experiments Made With Cattle and Hogs.

Communication and Destruction of Germs—Not Blown About Like Fog or Vapor—Kept Alive in Manure.  
 (Contributed by Ontario Department of Agriculture, Toronto.)

At a conference of veterinarians engaged in the eradication of tuberculosis in live stock, held in Chicago, a valuable paper was read by Dr. Schroeder, Superintendent of the Bureau of Animal Industry at Bethesda, Md., who gave details of the results of experiments which he has conducted during many years on the subject of how tuberculosis is carried from one animal to another.  
 The first experiment he described was where two stables were used, designated T and H.

### T. B. Germs Destroyed by Air and Sunlight.

Stable T held for six years a tuberculous herd of about 20 cattle ranging from cattle that were healthy to those that were in the latest stages of generalised tuberculosis. Healthy cattle put into this stable contracted the disease very quickly, and deaths were not uncommon. In stable H a herd of 20 to 30 cattle were kept during the same time, but no case of tuberculosis developed among them. Men employed in stable T were not allowed in stable H nor were utensils used in T ever taken into H. Dr. Schroeder believes that this experiment confirms the research of various investigators to the effect "that we have no satisfactory reasons to believe that tubercle bacilli can retain their virulence long enough in tuberculous sputum or other substances to become pulverized sufficiently to be carried about by currents of air, and even if this were possible the germs would be so exposed to light in the minute particles which can float in the air that they would speedily die."

### Germs Not Blown About Like Fog or Vapor.

Another experiment of a similar character was carried out on a two-acre field which had been divided into three inclosures, each containing a stable 16 feet square. The inclosures were designated A, B and C. A was separated from B by a woven wire fence. C was separated from B by two lines of woven wire fence eight feet apart. Several tuberculous cows, some healthy cattle and some healthy brood sows were placed in stable B. Healthy cattle and healthy brood sows were placed in A and C. At first each inclosure had its special attendant but later one man was given the care of all of them, with the injunction that he should attend to the stock in the order of C, A, B. If it was necessary to enter A or C after having been in B, he was required to clean his shoes of manure. This experiment continued with the one man in charge for seven years. Inclosure B proved to be a dangerous place for both hogs and cattle. A few hogs in A contracted tuberculosis, but none of the cattle, and both hogs and cattle in C remained free. As a comment on the experiment, Schroeder says, "Tuberculous infection is a concrete thing, which is not blown from place to place like a mass of vapor or fog. There are many ways in which it can be transported, but they are simple, easily comprehended ways." This he showed by a third experiment. He had two pastures separated by a small woodland and a cultivated field. A sown field from one field called I to the other called E. A herd of tuberculous cattle was placed in I and a healthy herd in E. Several of the cattle in E contracted tuberculosis.

### Healthy Cattle Contract the Disease by Contact.

Experiments regarding the danger of allowing healthy cattle to come into contact with diseased ones are quite impressive. Calves which nursed a tuberculous udder only once or were fed just once on tuberculous milk from a pail invariably contracted the disease. Schroeder has two records of healthy bulls contracting the disease while serving tuberculous cows, but none of healthy cows contracting the disease during service by tuberculous bulls.

Schroeder's studies show that if healthy cattle are protected from direct contact with virulent tuberculous material or with diseased cattle, their chances of contracting the disease are slight, even nil. For eight years he has been alternating a healthy herd and a diseased herd from stable to stable. The stable in which the diseased cattle were kept is carefully cleaned, but not disinfected, special care being taken to remove caked masses of manure. After a week or ten days the healthy cattle are put in, and the tuberculous cattle put in the stable formerly occupied by the healthy cattle. Both stables are frame structures with earth floors. No cases of tuberculosis have ever developed in the healthy herd.

### T. B. Germs and Manure Piles.

Dr. Schroeder closed his paper with this significant statement, "Tubercle bacilli have been proved at the station to remain alive and virulent in a manure pile, some distance below its surface, for a period upwards of six months, but they will not stay alive, in stables or elsewhere, unless they are protected by opaque masses of some kind against the action of the sun."

# LICE INFESTING FOWLS

Vermis Are a Source of Great Loss to Poultrymen

The Various Species Named and Described—As Affecting Chickens, Turkeys, Ducks, Geese and Pigeons—Stable Ventilation—Carrying Young Pigs Along.  
 (Contributed by Ontario Department of Agriculture, Toronto.)

Losses due to infestations of the various forty species of lice that infest domestic fowl are in the aggregate many thousands of dollars annually to the poultry-keepers of Ontario. Small insects working out of sight of the human eye, their presence is often unsuspected until the birds show unthriftiness, loss in weight, lower egg production, and reduced vitality, causing the owner to make an examination. If the examination is thorough, lice are generally found in the great majority of flocks. A few may not be serious, but if the little crawlers are permitted to increase to thousands the effect on the poultry-keeping part of the farm business is serious. Infested birds present a droopy and unkempt appearance, the wings lowered, the feathers ruffled, and the birds may suffer from diarrhoea.

### Infesting Chickens.

Of the forty species that infest fowl, seven have a decided preference for and infest chickens. The body louse "Menopon biserialis," is light yellow in color and sticks pretty close to the skin. It lays its eggs in large clusters on the small feathers below the vent. It takes about three weeks from egg to mature louse. This species sticking close to the skin and feeding thereon is very irritating. The "Menopon pallidum" is similar to the preceding, only somewhat smaller and has the habit of spending its life on the feathers. It is not so irritating and deposits its eggs singly at the base of the feathers. The head louse "Lipeurus heterographus" is commonly found on the head and neck of young chickens. It is dark grey in color, deposits its eggs singly on the down about one week to reach the hatching stage and two weeks for the young louse to grow to maturity.

The large hen louse "Gonulocotes abdominalis," sometimes called the "blue louse," is smoky grey in color and one-third larger than the preceding. It sticks close to the body, may be found anywhere and is easily recognized by its size and large round head.

The wing louse "Lipeurus caponis" is a small, long and slender species with a large rounded head. It confines its activities to the wing feathers.

Two other species, the "suff louse" and the "brown louse," are rarely present in numbers. Both inhabit the body feathers.

### Infesting Turkeys.

Two species are commonly found on turkeys, the "Gonulodes stylifer" and the "Lipeurus polytrapezoides." The "Gonulodes stylifer" is the most common. It is a large louse bearing some resemblance to the large hen louse, and may be distinguished from it by having the posterior angles of the head extended backward and terminating in long bristles.

### Ducks and Geese.

Three species infest ducks and geese to a limited extent, the only nature of the skin of waterfowl being a good preventive against these external parasites. The species commonly found are "Dacophorus loterodes," a very small parasite, and the "Lipeurus squallidus," a long, slender, yellowish colored louse.

Pigeons.  
 These birds are frequently infested with one of all three species—"Lipeurus baculus," "Gonulodes damicornis" and "Gonulocotes compar."


Methods of controlling these vermin will be given in a later issue.—L. Stevenson, Dept. of Extension, O. A. C., Guelph.

### Stable Ventilation.

When planning the changes to be made in the farm stables next season, give the question of ventilation first consideration. Animal life is dependent upon oxygen. Food that is eaten would never be of service to animals or to humans if it were not oxidized or combined with oxygen in the body. Fire cannot burn without air, and food cannot be "burned" in the body without air. It is strange that so much time and study have been expended on the problems of breeding and feeding, and that so little attention has been given to the most important demand—in the life of a domesticated animal—pure air. Plan the stable in such a way that pure air will be available to the animals every hour of the day. So says L. Stevenson of the Ontario Agricultural College.

### Carrying Young Pigs Along.

Nature's tonics for young, growing pigs are exercise, sunshine, plenty of green succulent feed, and clean surroundings. Success with the litter, therefore, will depend on getting the sow and pigs on pasture as soon as possible. It is just as important to the health and thrift of the litter that the mother get exercise as it is for the pigs.



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