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1896—Twentieth Year—1916

Nova Scotia Exhibition Is Within One Year of Its Majority

Plan to See the FAIR in Its Twentieth Year

The dates for the Great Provincial Fair at Halifax are

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Great Exhibits in various departments. Horse Races every day worth seeing. Five Acts and Novelties to interest. Midway and good amusement features. Low railway fares. You should come.

M. McF. HALL, Manager and Secretary.

SPECTACULAR VENUS

Although many of us—most of us—do not care to rise from our beds and go out of doors around three o'clock to watch and admire the beautiful splendor of the white planet Venus...

omical statistics, Venus is about nine-tenths as large as our earth, her diameter being 7,700 miles to our terrestrial diameter of 7,618; and her distance from us varies from 56,000,000 to 160,000,000 miles, the distance from our world to the sun being an average of 93,000,000 miles.

Middleton

Aug. 21

Mrs D. J. Morse is visiting friends in Halifax and Wolfville.

Mrs. G. W. Potter and Gerald of Digby, are guests at Capt. Charlton's. Mr. Dickie of the Royal Bank, Bridgetown, is leaving at Middleton.

Miss Carrie Roop of Winnipeg is the guest of her brother, F. H. Roop, Main Street.

Pte. Gerald Merritt of the 5th Battalion, spent a few days with his friend Muir Reed, last week.

Miss Ethel Morse left on Saturday for the West, where she will take a school as vice-principal.

J. R. Allen spent a few days last week with his sister, Mrs. Howe Cox, Cambridge, Kings County.

Rev. and Mrs. S. S. Poole were in Middleton on Wednesday last attending the Lord-Nelly wedding.

On Saturday afternoon Bridgetown Tennis Club played Middleton. The Middleton players won the tournament.

Miss Gretchen Gates, who is visiting in Moncton, expects to leave the first of October to begin a course of training at Newton Hospital.

Miss Annie Hiltz, who has been studying at the Colchester Academy, and also attended the Rural Science School at Truro, has returned home. She received a ten dollar prize for excellent work. Miss Hiltz expects shortly to return to the West.

An interesting event took place at Caledonia, Wednesday evening, Aug. 9th, 1916, when a pretty wedding took place in the Anglican church.

The occasion was the marriage of Miss Luella E. Ruggles, daughter of Mr. and Mrs. H. L. Edwards, to Mr. C. Arthur Potter, of Middleton. Rev. W. R. Martell of New Germany, performed the ceremony assisted by Rev. E. A. Harris of Mahone. The bride was charmingly attired in bridal satin, with pearl trimmings and silver lace, with veil. The bridesmaid was Miss May Palmer, of Middleton, who wore a gown of pale-blue taffeta, trimmed with white chiffon.

The groomsmen were Mr. Atwood Bent of Middleton, Prof. Lindsay of Houlton, Maine, a friend of the groom, played the wedding march. The out-of-town guests were: Mr. and Mrs. Harry Potter, Nictaux Falls, Pa.; Mr. and Mrs. J. H. Potter, Middleton; Mr. and Mrs. R. B. Cushing, Bridgewater; Mrs. Harris, Mahone; Mrs. Martell, New Germany; Miss Flo Boehner, Lunenburg; Mrs. Thos. Buckler, Middleton; Rev. Fred Freeman and wife, Porto Rico. The present were pretty and many. Mr. and Mrs. Potter spent part of their honeymoon at Kegemakoodge and Smith's Cove.

NICTAUX FALLS

Aug. 21

Mr. Percy Annis of 219th Battalion, Aldershot, is home for a short time.

Mrs. Brennan of Lake George, is visiting her daughter Mrs. L. Kendall. Mrs. Arch Feindel and children went to Bridgewater on Saturday last for a few days.

Mr. and Mrs. Bernard Foster of Hantsport, were recent guests at the Central House.

Miss Emily Mills of Granville Ferry, spent the week end with friends in this place.

Miss Rosewick of Boston and Mr. and Mrs. J. B. Hall are boarding at the home of Stanley Cross.

D. Adams and Andrew Archand of Connecticut, were recent visitors at the "Saunders House."

Mrs. Anna Smith of Malden, Mass., also Mrs. G. B. Steele of Melrose, are guests of Mr. and Mrs. A. B. Bertaux.

Mrs. Wilner of St. John, is visiting her two daughters Ethel and Helen, who have been summering at the "Saunders House."

Mr. and Mrs. Bartling of Liverpool are guests of Mrs. C. W. Hoffman. Mr. and Mrs. Bartling are motoring through the Valley.

Nictaux Centre, Nictaux Falls, Nictaux South Sunday Schools held their annual picnic on Wednesday last. A pleasant day and a good time generally, was the report of all.

Mrs. J. W. Hicks and daughter Edith of Lynn, Mass. who have been spending a two weeks holiday with Mr. and Mrs. C. C. Smith returned to their home on Thursday last.

OLDER BUT STRONGER

To be healthy at seventy, prepare at forty, is sound advice, because in the strength of middle life we too often forget that neglected colds, or careless treatment of slight aches and pains, simply undermine strength and bring chronic weakness for later years.

MELVERN SQUARE

Aug. 21

Miss Grace McNeil visited friends in Williamston, during last week.

Miss Georgie VanBuskirk of Nictaux, spent last Sabbath at her home here.

Miss Greta Morse was the guest of her cousin Myrtle Morse one day last week.

Miss Jennie Reid of Berwick, is the guest of her friends, Mr. and Mrs. E. E. Phinney, for a few days.

Mr. Roop of Clementsfort, is the guest of his son, the Rev. F. E. Roop, this week, at the parsonage.

Mrs. Jennie Goucher, of Kingston, was the guest of her step-daughter, Mrs. Miner Sproule, last week.

Miss Lizzie Feltus of Lawrencetown, visited at the home of her uncle, Mr. Duncan Smith, during last week.

Miss Hazel McNeil spent a very pleasant week with friends in Woodville, Kings County, quite recently.

Pte. Milton Munro of the 5th Batt. made a flying visit to his friends, Mr. and Mrs. H. L. Bustin, during last week.

Mr. Banks and Mr. and Mrs. Marlott of Williamston, with their little son, were recent visitors at the home of Mr. and Mrs. William Martin.

Miss Violet Rice arrived in Melvern a short time ago, and will remain with Mrs. Kenyon for an indefinite time at the home of Mr. Duncan Smith.

Miss Bailey, who has been spending several weeks with her cousin, Mrs. Percy D. V. Baker, returned to her home in Boston, a few days ago.

Mrs. Percy Demmons and two children, accompanied by Miss Mable Phinney, spent a very pleasant week with friends in Yarmouth County.

Mrs. Fred Burgess and two children of Sheffield Mills, are spending a few weeks at the home of Mrs. Burgess' parents, Colonel and Mrs. Spurr.

Miss Harriet Spurr spent a week in Berwick, where she attended the Summer School of Methods, held on the Camp Grounds, and reports a pleasant outing.

Our postmaster, Col. E. F. McNeil, left on the early train Saturday morning for Halifax, where he will spend a few days with his son, Capt. S. L. McNeil, combining business with pleasure.

We are glad to be able to state that Miss Mable Brown was successful in obtaining her "C" certificate, with very high marks, while Miss Vera Palmer obtained a grade lower than the one applied for.

The Methodist Sabbath School of this place intend holding their annual picnic at Margareville next Saturday, if fine. The Baptist hold theirs on Tuesday of next week, at the same place. All are wishing for a fine day.

Mr. Mace Masters, of Boston, is the guest of his brother, Mr. John Masters for a few weeks. Mr. Masters has many warm friends in the vicinity of the township of Wilmot, who are always glad to see him on his annual vacation.

An auto party, consisting of Mr. and Mrs. Robert McKay, Miss McKay, and Miss Ruth Parsons of Middleton, and Mrs. Wm. Bustin and two children of Yarmouth, motored to Melvern one evening last week, where they called on their friends, Mr. and Mrs. H. L. Bustin.

A sudden cool wave struck us on Monday the 14th, when men were seen driving teams with mittens on their hands to protect them from the cold, a rather unusual sight in August.

However, the cool wave soon passed over, and we were again held under the spell of August heat, much to the satisfaction of the busy hay-makers.

FALKLAND RIDGE

Aug. 19

Mrs. A. Sciever and children Cedric and Muriel, are home again.

Mrs. Richard Tretheway of Riversdale, is the guest of her son Harold Mason.

Mrs. Downie of Margareville, is the guest of her daughter Mrs. Harold Mason.

Mrs. Elwood Mason and little Doris of Somerville, Mass., are the guests of Harold Mason.

Milford McMullen and family have removed from Hastings to his father's Mr. J. McMullen.

Little Alice Caine of New Germany, is the guest of her grandmother, Mrs. John McMullen.

Harold Mason has just purchased a reaper and binder, and will be prepared to help out the farmers' oats and corn.

Aug. 16th being the 74th anniversary of Mrs. D. D. Starratt a number of elderly ladies gathered at the home of Mrs. E. Wagner to celebrate the event.

On Aug. 18th word was received here of the death of Miss Hazel Wright of East Dalhousie at the Halifax Hospital. She was a lovely young girl and will be greatly missed.

The Orchard

The Introduction and Establishment in Canada of the Natural Enemies of the Brown-Tail and Gipsy Moths

One of the most interesting and valuable lines of work that has been undertaken by the Entomological Branch is the introduction into Canada of the natural enemies of the brown-tail moth and the gipsy moth. The brown-tail moth was first discovered in Nova Scotia in 1907 and in New Brunswick in 1910, both infestations resulting from the widespread infestation occurring in the New England States. Up to the present time seven counties in Nova Scotia and eleven counties in New Brunswick have been infested. In both provinces, but particularly in the latter, the insect has been prevented from increasing by a thorough inspection of the whole of the infested and likely-to-be infested territory and the destruction of the winter webs containing the hibernating caterpillars. This artificial, however, is subject to limitation by numbers, the present system of collecting webs being only practicable so long as the infestation is not too heavy. But the north-easterly spread of the brown-tail moth in gradually increasing numbers from the New England States continues. Further, the gipsy moth, which will find suitable food plants in eastern Canada, is now within about fifty miles of the international boundary.

In view of the practical impossibility of artificially controlling the brown-tail moth now within our territories and the gipsy moth when it arrives, it was decided to profit by the experience that the United States had gained at great cost, and to endeavour to assist in the natural enemies. In this task we were fortunate in securing the co-operation of the Bureau of Entomology of the United States Department of Agriculture, thanks to the kindness of Dr. L. O. Howard, the Chief of the Bureau, who has given us every facility and for which assistance we are most grateful. Realising that the ultimate control of two introduced insects such as the brown-tail and gipsy moths could only be secured by natural means, and as the insect enemies of these insects native to New England did not cause any appreciable reduction in their numbers, the United States Bureau of Entomology, in co-operation with the State of Massachusetts, started to introduce the parasites and natural enemies from the native homes of these insects in Europe and Japan in 1905. Each year a large amount of parasitised material has been imported and as a result of an enormous amount of

labour and the expenditure of about a quarter of a million dollars, seven species of parasites and a redacious beetle (Calosoma sycophanta) have been successfully established in New England and are spreading.

Instead of being compelled to go to Europe and Japan for our parasites, through the cordial co-operation of the United States Bureau of Entomology to which I have referred, we are able to collect our material in those parts of New England in which the European natural enemies have been colonised. As the brown-tail moth is only lightly scattered over New Brunswick and Nova Scotia, in fact it cannot be said to have become established in New Brunswick owing to our thorough scouting work since its first discovery, and as the gipsy moth has not yet arrived, it was necessary, in order to establish the natural enemies of these insects, to choose species of parasites which will attack and establish themselves on certain of our native insects. Our object in this work is to establish the natural enemies of the gipsy moth and brown-tail moth in eastern Canada before these pests arrive in great numbers, so that the problem of ultimate control will be very materially advanced and the losses will, therefore be considerably lessened. Our work is comparable to the taking of military precautions against an invasion; instead of allowing the enemy to spread over one's territory before taking protective measures, we are preparing our territory for the arrival of the enemy.

We commenced importing the parasites from Massachusetts in 1911 and the work has increased annually. In order to give some idea as to the progress of this work and the methods that we are following in carrying it out, I have requested the officers in charge of the work to describe the different sections for which they are responsible. In the first article, which follows this introduction, Mr. L. S. McLaine, our Field Officer, who has charge of the work of collecting the parasites and pedacious beetles in New England, in addition to being responsible for the brown-tail moth inspection work in New Brunswick, describes the methods of collecting and rearing in New England and shipping to New Brunswick the natural enemies we are importing.

The headquarters for this work is the Entomological Laboratory at Fredericton, N. B.

C. GORDON HEWITT
Dominion Entomologist.

Rearing the Parasites of the Brown-Tail Moth in New England for Colonization in Canada

(By LEONARD S. McLAIN, M.Sc., Field Officer, Entomological Laboratory, Fredericton, N. B.)

When the brown-tail moth made its appearance in the provinces of New Brunswick and Nova Scotia the Entomological Branch decided to adopt two distinct methods of control, the artificial and natural, in order to try to curtail the ravages of this insect as much as possible. The artificial control is carried out by the collection and destruction of the brown-tail winter webs containing the hibernating caterpillars, and the spraying of the most infested orchards with lead

these parasites has been carried on for the past four seasons at the United States Gipsy Moth Laboratory, Melrose Highlands, Massachusetts. The Entomological Branch has stationed three men at Melrose Highlands each season for this work.

The brown-tail moth is a native of Europe and was accidentally imported into the United States. At the time of introduction either the parasites were not brought in with it or else they were unable to withstand the change of climate. It increased enormously



FIG. 1. Collecting cocoons of Apanteles lacteicolor in tray in which they have been reared from caterpillars of Brown-tail Moth. Note rubber gloves to prevent the affection known as "Brown-tail rash" caused by poisonous hairs from the caterpillars from developing on the hands.

arsenate. This method is practical in settled communities, but in the case of infested woodlands it is out of the question on account of the tremendous cost and the difficulty of obtaining satisfactory results. To check the increase of the insects in the woodland it is necessary to use the natural means of control, and by this is meant the importation and distribution of other insects which are parasitic and predacious on the noxious host. Through the courtesy of Dr. L. O. Howard, Chief of the United States Bureau of Entomology the raising of

in numbers and spread rapidly. The United States Bureau of Entomology then imported large numbers of various species of parasites and several of these have become thoroughly established, so that further European importations of these particular species became unnecessary. As the brown-tail moth has spread over such a large area and as the natural distribution of the parasites is comparatively slow it is necessary to assist nature in the distribution of these parasites by artificially raising and colonizing them

(Continued on page 3.)

ROUNDHOUSE AT MIDDLETON

(Middleton Outlook, Aug 11)

On Monday morning, H. Dalton, foreman of the bridge construction gang of the D. A. Ry., commenced the erection of a roundhouse in Middleton. A dozen to fifteen men are employed and the work is to be finished in about three weeks.

The building which is to be 38 feet across and of wood is being located just south of the main track nearly opposite Allen's mill. It will have accommodations for three locomotives.

We are informed that from Middleton Mr. Dalton goes to Windsor to erect a similar building and from the latter place to Kentville to put up a building similar except that it will have room for six locomotives.

Real Estate for Sale

CHOICE BUILDING LOTS

A lot of land situated on the south side of the river at Bridgetown, about three minutes walk from town. Beautifully situated and would make ideal building lots. Sufficient for three lots. Splendid drainage. Will sell whole or in lots. Price very reasonable.

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FIRST CLASS FARM

Small farm situated about two and one half miles from Bridgetown. Ten acres of choice tillage land and five acres of excellent marsh. Capable of putting up three or four hundred barrels of first class fruit. Buildings in excellent condition. Never failing supply of splendid water.

Apply to

4 The Monitor Publishing Co., Ltd.

PROPERTY NEAR BRIDGETOWN

Property situated about five minutes walk from Bridgetown. Fifteen acres of land with two hundred apple trees, half of which are coming into bearing. Also pear and plum trees. House contains nine rooms, large pantry and two large halls, newly painted throughout. Large dry cellar. Barn 24 x 28 sheathed inside. Water in house. Hay and pasture sufficient for two cows. An excellent opportunity for a man who wants a small place. Will be sold right.

Apply to

5 The Monitor Publishing Co., Ltd.

CREAMERY OR FACTORY SITE

A lot of land in Bridgetown about 150 feet square with building one and one half stories, 40 x 50 front with lean-to on north and east sides. Building contains ice room, drying or curing room, churn, milk and cream vats, power separator, engine and boiler in good condition. Suitable for manufacturing cheese and butter or would make a fine canning factory for which industry there is a good opening.

Apply to

6 The Monitor Publishing Co., Ltd.

PROPERTY FOR SALE

Property just outside Annapolis Royal consisting of seven and one half acres of land. Large house with good rooms; size of house 36 x 48 with ell 14 x 21 and porch, ice house, wood house and wagon house attached. Good size barn with stable, hen house and shed for storing machinery. Approximately 160 apple trees on the place a few of which pick early varieties and the remainder hard or winter fruit. Cuts 9 tons of hay at present and can be made to double this quantity. Price on application.

Apply to

7 The Monitor Publishing Co., Ltd.

SMALL PROPERTY FOR SALE

A small place in Bridgetown, containing about one acre of land with cottage house of eight rooms and pantry. Large verandah across front, and town water in house. A number of apple, pear, plum, and other small fruit trees. New barn 28 x 38, and carriage house. Will be sold at a bargain to a quick purchaser.

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FRUIT AND DAIRY FARM

Valuable Fruit and Dairy Farm for sale. Contains 40 acres of cultivated land, 90 acres of woods, and 90 acres of pasture. Cuts about 125 tons of hay and yields from three to six hundred barrels of apples. House of 14 rooms, suitable for two families. Two barns, wood house, and other out-buildings. All in good repair. Farm is situated in good locality about five miles from Bridgetown. Near church and school house. Property will be divided to suit purchaser. Apply to

9 The Monitor Publishing Co., Ltd.