

THE CENTRAL GUARDIAN

Agricultural News

P. E. I. Department of Agriculture

Injured Treasure In Wheat Straw And Stubble

Wheat farmers long ago discovered that when wheat straw and stubble were plowed back, the yield of the following crop was down. So, they burned the straw down. They then plowed and stubbled or else they plowed it down. They thought nothing could be done about it.

Today we know why plowed-down stubble depressed yields. With this knowledge we can turn this crop refuse into unbursed treasure.

The explanation is found in the life processes of the bacteria that live in the soil. These bacteria produce humus which is organic matter containing nitrogen in the most desirable form for crop growth. Nitrogen, of course, is one of the elements vital for crop production. Here is the sequence: SOIL BACTERIA AND ORGANIC MATTER produce HUMUS, which releases NITROGEN for good CROP GROWTH.

The bacteria produce this humus by decomposing plant material such as wheat straw and stubble containing a high amount of the element carbon. To do this, the bacteria themselves must be supplied with food in the form of nitrogen and lime. They require a definite proportion of carbon to the amount of carbonaceous material they are to decompose. This proportion is about one part of nitrogen to twelve parts of carbon. When living in organic matter and soil containing this proportion of the two elements, the bacteria flourish. A crop growing in this kind of an environment is provided with a continuing source of nitrogen.

What Happens When Straw and Stubble are Plowed Down

Now let's see what happens when wheat straw and stubble are plowed down.

Straw has a very high carbon content and a low nitrogen content. The ratio is often as high as one part of nitrogen to 40 or 80 parts carbon. When such material is plowed down, the nitrogen-carbon ratio of the soil is bound to be upset. Because the bacteria are suddenly confronted with a huge amount of carbonaceous matter to decompose, they immediately create a tremendous demand for nitrogen to feed themselves while they do their job. Whatever nitrogen is in the soil at the time of plow-down will be taken up by the bacteria, depriving any crop growing in the soil of nitrogen. Naturally, poor crop growth and low yields result. That's not all that happens.

Such unfavorable conditions cause decomposition to proceed very slowly. Eventually, a 1 to 12 nitrogen-carbon ratio will be established but until this happens, crops suffer from lack of nitrogen. Also, because the bacteria are starved for nitrogen, they cannot do their job quickly and completely so much of the turned-under carbonaceous material is left by a process called "oxidation." Oxidation is a chemical reaction in which the carbon in the wheat straw combines with oxygen to form a gas, carbon dioxide. This gas escapes from the soil and the result is that much potential humus is lost.

What Happens When Straw and Stubble are Burned

Burning certainly disposes of excess carbonaceous material without loss of mineral elements. But it also removes the raw material—crop refuse—from which humus is produced. Humus is the backbone of all productive soils and

no soil is fit for agricultural use unless it contains good supply. Burning crop refuse is an extremely wasteful practice and in the light of modern knowledge of plant fertilization, is entirely unnecessary. Here now is a more complete diagram of the "straw-stubble problem. NITROGEN, LIME feed the SOIL BACTERIA which decompose straw-stubble and produce HUMUS containing available nitrogen for the good CROP GROWTH.

Poultry

Poultry should at all times be given good care. September is a month in which special attention should be given to the following management points. 1. The early pullets should be brought into the laying houses. 2. Last chance to get your application in for flock-improvement work. 3. Feed the pullets scratch grain liberally. 4. Keep a laying mash before the pullets at all time. 5. Sort cockerels and band those good enough to keep or sell as breeders. 6. Close the rear ventilators in the laying house. 7. Seed the yards or adjacent fields to wheat, oats, rye, or broom grass. 8. Treat all the poultry on the place for lice. 9. Take the family to the fair and find out from the poultry judges where your birds need improving. During this month the laying flock, if not already disposed of, should average about twelve eggs per hen.

Dates To Remember

September 2, Alberton Exhibition. September 9, Souris Exhibition. September 16, Queen's County Plowing Match. September 23, Egmont Bay Exhibition.

Club News

Mr. James D. Moore, Secretary-Manager of the Canadian Council on 4-H Clubs, is planning to make his annual visit to the Province on Friday, September 4. Mr. Moore assumed the position of Secretary-Manager on the retirement of Mr. A. MacLaurin. Mr. Moore has been a member of the Council Staff for a number of years as Public Relations Officer, and is no stranger to the many 4-H Club members across Canada. During his stay in the Province he will confer with Department of Agriculture officials, and will also officiate as judge at the Malpeque Calf Club Achievement Day on Friday. On Friday evening it is hoped to have Mr. Moore address a Club Rally in Pownal Hall, which will be attended by the 4-H Club members in the Pownal, Mt. Mellick, Alexandria, and Southport districts. Mr. Moore is a former Club member himself and it is to be hoped that as many Club members as possible will avail themselves of the opportunity of hearing and meeting Mr. Moore.

The Achievement Day for the members of the 5-Star 4-H Dairy Calf Club was held at the farm of J. H. Love, East Royalty, on August 31.

A large number of interested spectators were on hand to see the boys and girls show their calves. Mr. S. D. Percock of the Provincial Department of Agriculture placed the awards and complimented the Club members on the excellent quality of their calves, and also on the manner in which they were shown. The entries of Norma Holmes, Elise Love, and Carol Ann Farquharson will represent their Club at the Rural Youth Field Day on September 18th. The standing of the Club members which includes the calf and the results of the year's work is as follows: (1) Norma Holmes, (2) Elise Love, (3) Harry Love, (4) Carol Ann Farquharson, (5) Catherine MacArthur, (6) Juanita Hardy, (7) Lowden Ashley, (8) Helen MacKinnon. Showmanship: (1) Catherine MacArthur, (2) Harry Love, (3) Norma Holmes, (4) Carol Ann Farquharson, (5) Elise Love. Judging: (1) Harry Love, (2) Juanita Hardy, (3) Elise Love, (4) Catherine MacArthur, (5) Carol Ann Farquharson.

The regular meeting of the Head of Hillsboro Calf Club, the "Busy Bees", was held August 14 at the school.

The next judging class is to be held at Geddie Douglas' at 6:00 p.m. August 28. The treasurer reported \$29.50 on hand. The subject matter consisted of tests which were written.

MT. MELLICK GARDEN CLUB

Misses Elda and Elaine Boswall were hostesses to their Garden Club on Wednesday evening. The president occupied the chair. Some rules or parliamentary procedure were explained by the Club leader. It was decided that Elaine Boswall and Douglas Robertson prepare genes for next meeting which will be held at the home of Norma and Douglas Robertson.

It was decided to hold a Club evening in Pownal Hall on September 4, to which 4-H Clubs in neighboring districts will be invited to meet Mr. J. D. Moore, Secretary-Manager of Canadian Council on 4-H Clubs. Films will be shown and it was decided to sell sandwiches.

This week's lesson for the first year Club was "Summer Care of the Garden." Second year members learned how to prepare and cook vegetables. Games were played and a delicious lunch was served. A hearty vote of thanks was extended to the Boswall family for their hospitality.

"YOUR DOLLAR BUYS MORE— at the HUGHES DRUG STORE."

"WE TREAT THE SICK WELL." Giggey's Pharmacy, next Stewart's Bakery.

KEROSENE, Electric and Propane Gas Refrigerators. Bryenton and MacKay.

CHARLOTTETOWN HOTEL SUNDAY Special, five course Chicken Dinner, \$1.50. Served from 12:30 to 2:30 P. M.

HEIFER KILLED BY STORM—The recent electrical storm killed a 2 1/2 year-old heifer on the farm of Don Jewell, North River.

ENGAGEMENT.—Mr. and Mrs. John D. MacDonald, Blooming Point, announce the engagement of their daughter, Ruth Genevieve, to Sidney T. Fall, son of the late Mr. and Mrs. R. T. Fall of Virginia Beach. Marriage to take place latter part of September.

DON'T FORGET turkey supper Sept. 2, in aid of St. Vincent Orphanage. Supper served at St. Dunstan's College, time 4 p.m. Adults tickets \$1.00; children 50 cents. Entertainment on St. Dunstan's College grounds. Free transportation from I.M.T. 2 and 3 o'clock.

PERSONALS

Mr. and Mrs. Earl Warren of Portland, Me., are holidaying at North River and Rose Valley.

Mr. Hammond Watts of Alberta, is visiting his old home at Hampshire.

Dr. and Mrs. Mark Enman and daughter, Heather, left Clyde River this Wednesday for their home in London, Ont.

Mrs. Stewart Drake, Cornwall, left the Province last week for a brief holiday with relatives in Boston.

The condition of Mr. Louis Caragher, Tyrone, Lot 65, a patient in the Charlottetown Hospital for the past fifteen days is greatly improved. His many friends hope to see him out again soon.

Mr. and Mrs. George Mason, accompanied by Mrs. W. B. Stewart arrived on the Island Sunday and are the guests of Mr. and Mrs. Walter Quilty, South Shore.

C.P.O. Sydney McNevin and Mrs. McNevin and their two children Dale and Butch, left for Halifax after spending their vacation with the former's mother, Mrs. Jack Vissey, West Royalty.

Mr. and Mrs. John Stubbs and children Palma and Gwendolyn, of Norwich, Ont., who have been visiting Mrs. Stubbs' parents, Mr. and Mrs. William Bernard, Sr., of Hunter River, P.E.I., recently returned to their home.

YORK AND VICINITY

Miss Mildred Miller, of the U. G. A., one of the ACWW delegates, was the guest of Rev. and Mrs. Sproule of York Mansie.

Mr. and Mrs. Claude Craswell, Winsloe, were the guest of Mr. and Mrs. Gordon Crockett on Sunday, August 30.

Mr. and Mrs. Leith Brown, York, spent the weekend at Truro, the guest of Miss Muriel Brown. They were accompanied by Mr. and Mrs. Jack Cooke, City.

Mr. and Mrs. Raymond Vessey, York, spent Sunday at Summerside, the guest of Mr. and Mrs. Wallace Murray.

Miss Bessie McGuire of Western Australia, one of the ACWW delegates was the guest of Mrs. Claude Lewis, York, on Sunday evening.

Mr. and Mrs. Geo. Watts, York, had as their guests over the weekend, Mr. and Mrs. S. Wood of Toronto.

Miss Aletha Brown left by plane Saturday for Truro, to visit with her aunt, Miss Muriel Brown.

Mrs. Horace Vessey, York, was the guest of Mr. and Mrs. J. D. MacPhail, Argyle Shore. They celebrated their 25th anniversary.

Mrs. E. Smith of Melville, Sask., one of the ACWW delegates, was the guest of Mrs. Claude Lewis, York, on Sunday evening.

Mr. and Mrs. Allison West and family, City, were guests of Mr. and Mrs. Horace Vessey on Sunday.

Mrs. Willard West, City, was the guest of Mr. and Mrs. Horace Vessey, York, on Sunday.

Mrs. Elmer Brown had as her guest Mr. Leroy Vessey, Dunstaffnage, on Sunday.

Mr. Donald Crockett, York, spent Sunday at Union Road, the guest of Mr. and Mrs. Dave MacDonald.

Mrs. Elmer Brown had as her guest Sunday evening, Lady Evelyn de Soysa, of Ceylon, an ACWW delegate.

Firestone To Enlarge Hamilton Plant

HAMILTON, (CP)—The Firestone Tire and Rubber Company of Canada announced Monday that the company had started work on a \$4,000,000 expansion program at the local plant. The program, which will increase the capacity of the plant, will also include modernization of all equipment.

The ancient Matto Grosso swamp in Brazil, covered with dense timber, has an area of 530,000 square miles.

We And Our Neighbours

by Ruhamah Scheinfeld Frank

number of people of any age, who maintain now, that, "education is a lot of nonsense," and "a man who is worth his salt," can get to the top without it. But young Jim Morris is undoubtedly influenced by his father's success in business and community life without the help of formal education; and Mary Smith thinks her mother did all right with no more than eight grades; and Mr. and Mrs. Green can give plenty of instances where sons and daughters do not measure up to their parents who had far less schooling.

We know that education doesn't make the man any more now, than it did in the past, but we cannot fail to see that the need for an education is more urgent these days. For one thing, there were so few on the Island with a good education, that jobs had to be filled by the uneducated. Who ever heard of an employer advertising, "Only high school graduates need apply?"

But aside from that, more education is needed, since even here, in an agricultural community, the working is becoming more and more complicated. It is probably true, that a man is still able to make a good living, on a small farm, on the Island. But it is obvious that large farms operated by expensive machinery, are on the increase. This means that farmers must be well-informed along many lines, and must understand.

There are probably not a large (Continued on page 12)

CONGRATULATIONS to all the fine young people on the Island (and to their parents also) who are back, or will be back in school this year, determined to start life with at least a high school education. Perhaps a review of the need for such an education, will help the ones who are still undecided.

The desire to drop out before graduating from high school, isn't unusual. In the States, for example, although a million students obtain a high school diploma every year, almost another million leave school before graduating. In many cases, it is just impossible to stay in school, but in many others, here, as there the decision is made without long and careful thought and without exploring every avenue that may lead to continued schooling. Yet what decision can have a greater effect on the young person's future?

COMPLETES STUDIES FOR C. L. U.

Mr. R. E. Younker, a field representative of the Canada Life Assurance Company, has successfully completed the third and final year's examination, earning the title and designation, Chartered Life Underwriter of Canada (C. L. U.) It was announced in Toronto by the Life Underwriters Association of Canada. Mr. Younker was one of 101 life underwriters in Canada awarded the C. L. U. degree following examinations held in May of this year.

50TH ANNIVERSARY—Mr. and Mrs. Neil S. Ross celebrated their 50th anniversary Aug. 27 quietly at the home of their son, Neil E. Ross Jr. Their daughter, Mrs. (Dr.) J. J. Farley and her family of five were present, also Mr. and Mrs. Harold Matheson and daughter Donna Ruth. Their other children, Charles E. Ross, B. C. and Mrs. Wendell Steves, Penobscus, N. B. and Frederick W. Ross, London, Ont., and Mrs. Ted Collishaw, London, Ont. were unable to attend. Mr. and Mrs. N. S. Ross were the recipients of various gifts. The hostess served a delicious supper and a cake graced the centre of the table with all its trimmings. All wish Mr. and Mrs. Neil Ross many more happy anniversaries.

BRIDE-ELECT HONORED—The former Miss Mildred Walker, whose marriage to Mr. Hugh Trainor was a recent event, was honored at several social events. Miss June Eikhoud entertained at a miscellaneous shower when the guest of honor was presented with a beautiful hand-painted scene. The Misses McKay, Prince Street, also entertained at a shower. A dinner party for Miss Walker and Mr. Trainor was held by Miss Kathleen Hornby Tuesday evening at her home on Brighton Road. Misses Betty and Donna Currie were hostesses at a shower at their home on Euston Street. The tea table was centered with a silver basket of mixed summer flowers and yellow tapers in silver holders. Assisting to serve were Mrs. Fran Hoskins, Miss Lorna Martin, Mrs. James Ward and Mrs. Vernon Currie.

Mr. and Mrs. L. I. Duffy's dental office closed until September 8th.

SUITS \$39.00 UP, J. P. MacPherson and Spn.

WORTH'S DRUGSTORE, Prince Street, will be the only drugstore open this afternoon and evening.

QUEENS COUNTY PLOWING MATCH Sept. 16th, at Samuel Cousins' farm, Alexandra. Directors' meeting Thursday, Sept. 3rd, 8 p.m.

THE CHARLOTTETOWN KINDERGARTEN under the direction of Mrs. Ira Clark, assisted by Mrs. T. B. Rogers, will reopen September 8th. For further information Dial Mrs. Clark 4694.

ENGAGEMENT.—Mr. and Mrs. John Nicholson, Mt. Buchanan, wish to announce the engagement of their daughters Edna Isabel to Mr. John Martin Gillis, son of Mrs. J. H. Gillis and the late Mr. Gillis of Pinette and Margaret Eva to Mr. Stewart Leslie MacRae, son of Mr. Sinclair MacRae and the late Mrs. MacRae of Pinette. The marriages will take place in the near future.

We And Our Neighbours

by Ruhamah Scheinfeld Frank

HIGH SCHOOL DIPLOMAS AND LIFE

number of people of any age, who maintain now, that, "education is a lot of nonsense," and "a man who is worth his salt," can get to the top without it. But young Jim Morris is undoubtedly influenced by his father's success in business and community life without the help of formal education; and Mary Smith thinks her mother did all right with no more than eight grades; and Mr. and Mrs. Green can give plenty of instances where sons and daughters do not measure up to their parents who had far less schooling.

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CHARLOTTETOWN SCHOOL OF MUSIC

OF MUSIC

OPEN SEPTEMBER 8th

Director: Mr. Geo. A. Thompson, F.R.C.O. (CHM), A.R.C.M.

Lessons in Pianoforte Playing and Singing will be at the Studio, Prince St.

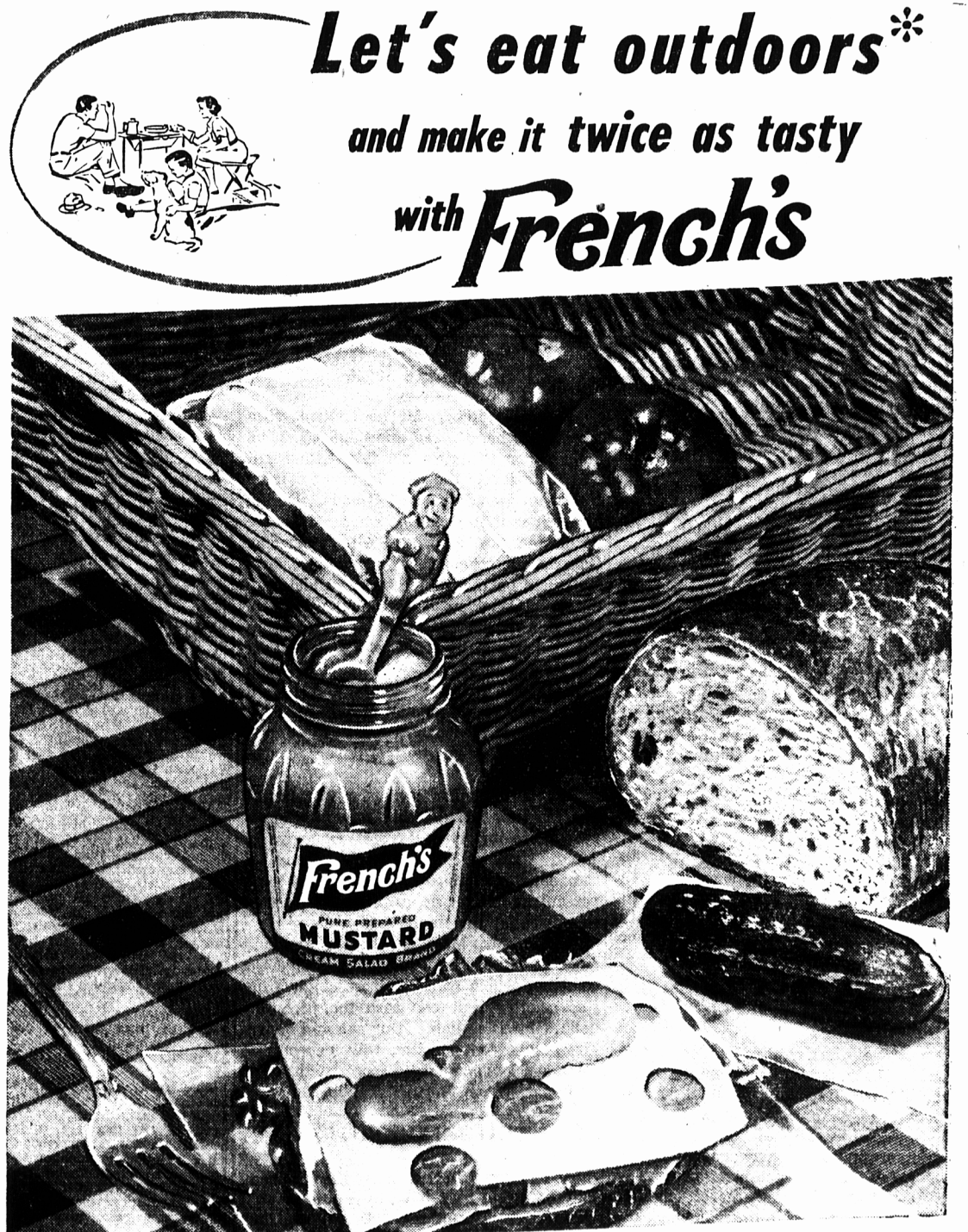
Phone 9241 For Appointments. Junior Group Singing Classes, open to the Public, will also be conducted.

Particulars Later.

CLASSES BEGIN SEPTEMBER EIGHTH

at UNION COMMERCIAL COLLEGE

Stenographic, Commercial, and Secretarial Courses Royal Bank Bldg. Charlottetown



*HERE'S ONE WAY-

- Sandwich Special: 1 slice Swiss cheese, 1 slice cooked ham, 1 tbslp. French's Prepared Mustard, 1 tbslp. horseradish, 1 tbslp. mayonnaise. Place ham and cheese on rye bread. Combine other ingredients and mix thoroughly. Spread on cheese. Add lettuce if desired.

Creamy, smooth and Oh! So Good

French's, the quality Prepared Mustard brings out the true flavour of your most tempting dishes. It goes perfectly with cold and hot meats, and the rich mustard goodness doesn't fade out in cooking. French's is a skilled blend of the finest mustard seed, spices, and vinegar; all combined to provide perfect zesty flavour.

GOLDEN APPEARANCE - GOLDEN FLAVOUR - GOLDEN QUALITY

Advertisement for Vanishing Cream Deodorant with Chlorophyll. Includes text: 'NEW! Vanishing Cream Deodorant with CHLOROPHYLL. RUB IT IN! RUB ODOR OUT!' and 'Every day - rub it in - rub odor out! When the green color vanishes, the odor is gone. New Arrid with Chlorophyll deodorizes instantly on contact... gives you rubbed-in protection. Stops underarm perspiration 1 to 3 days - keeps underarms dry and odorless.'

Advertisement for Boston Brown Flavor Aylmer Beans. Includes text: 'AH... THAT WONDERFUL BOSTON BROWN FLAVOR' and 'Only AYLMER has "Boston Brown" flavor. So enjoy these tasty, delicious beans, prepared in true "Boston" style with sugar-cured pork and lots of spicy tomato sauce.' Also features an illustration of a smiling man and a can of beans.

Advertisement for French's Mustard featuring a cartoon character. Includes text: '"LOOK FOR THIS ATTRACTIVE NEW JAR WITH THE FAMILIAR RED PENNANT"' and 'HOT DAN THE MUSTARD MAN'.