

Agricultural News

P. E. I. Department of Agriculture

GRASS SILAGE

Considerable interest has been shown in the cutting, preservation and storage of grass silage. This is the first of two articles dealing with the subject. In recent years much has been written about grass silage. Very little was definitely known about grass silage under P. E. I. conditions. In February of 1953 a commission, in two was appointed by the Dominion-Provincial Agricultural Council to make a survey of grass silage operations in the Province and after studying the literature present a report which follows. Grass silage is becoming more and more important in the diet of the dairy cow on Prince Edward Island. Gullies wash silage away where we never thought of such a thing happening a few years ago. We do not always realize that every spring thaw and every heavy rain washes soil off the hills and slopes wearing down the top soil that the crops grow in. The top soil that crops grow in is built up over thousands of years. When this top soil is washed away, the soil is exposed, the soil is not bound together by grass roots and other organic matter. Erosion increases and the productivity of the land is reduced. In the last few years farms that once grew good crops but now grow only scattered weeds. This is the result of poor farming practices and the resulting erosion. Much of this soil erosion can be controlled by proper cultural practices. This includes long rotations of crops on the hills and slopes as it has been proven many times that nothing holds the soil in place as well as a good sod. For economic reasons it is not sufficient to just grow grass but we must preserve and utilize this grass in the best possible way. Grass silage is one of the best ways of preserving grass. The term "grass silage" or "hay-crop silage" is silage made from any of the green crops which are commonly made into hay. This includes grasses, clovers, alfalfa and cereal grains. Good roughage is the backbone of any feeding program. A good silage or mixed hay crop will produce far more milk and meat-making nutrients per acre than any crop harvested for grain. These hay crops are our only practical means of providing an abundance of cheap home grown protein to meet winter feeding requirements. Let over half of the feeding value of the growing crop, especially the protein, is ordinarily lost during harvest, largely in the form of shattered leaves. Much of this, as well as other losses, can be prevented by using better equipment and methods for harvesting and storing. One of the most effective ways to reduce harvest loss is to make good silage from part of the hay crop. Why Make Grass Silage As hay crops mature they decrease very rapidly in palatability and digestibility. However, due to weather conditions it is often very difficult to make good quality field-cured hay where the crops are at the best stage of maturity. Rainy weather, which occurs so frequently early in the season, does not materially increase dry matter losses for silage but may result in heavy losses if the forage is made into hay. The palatability of the early-cut silage is so favorable that the total dry matter intake is considerably higher for early harvested forage. In addition digestibility for the early cut forage is extremely high and decreases rapidly as the forage matures. This range can extend from 70% for digestibility of the very early-cut silage down to 50% or less for late-cut roughage. The excellent combinations of high palatability and digestibility permits the cow to consume a larger amount of digestible dry matter from early-cut forage. This results in higher milk production and saves grain. By harvesting the first-cut early the aftermath gets off to a good start before hot weather sets in. Harvest loss, particularly from shattered leaves, is much less than with dry hay.

When locating a trench silo the first consideration is finding a place that will give adequate drainage. This often results in the silo being some distance from the barn. It is with the latter two types that we are mostly concerned and to which the following recommendations are mainly directed: Location Good drainage is very important for trench silos. The bottom of the trench should be sloping outwards with free drainage from the mouth of the silo. A side hill is most convenient. The silo should also be located as near to the barn as possible for obvious reasons. If the silo is placed against the foundation of an underground barn the great pressure of the grass against the wall may cave it in unless extra reinforcement is provided. Also a straight wall makes it difficult to trench the silage. Having an open end of the silo against the barn floor should prove satisfactory. Size And Dimensions The size will depend upon the number of cattle to be fed or the amount of grass to be ensiled. One cubic foot of silage weighs about 45 pounds. Four to six tons of grass per acre is an average cut. The trench should be at least six feet deep. The greater the depth the lower will be the per cent spoilage as spoilage is greater on top. The minimum width will depend upon the size of the blade on the bulldozer if one is used to dig the silo. It must be wide enough to allow through packing with a tractor but should not be over 12 feet at the bottom. The sides should be sloped to aid in packing, and to reduce the amount of crumbling on the walls of trench silos. It has been found that in an arid climate that it is necessary to line the walls with concrete or wood as crumbling of the walls will occur after one or two years' operation. There should be a slope of 3 to 5 inches on each wall for every foot of depth. Once the width and depth have been decided the length will be determined by the amount of grass to be ensiled. For instance, a silo 8 ft. deep, bottom width, 10 ft., top width 15 ft., will hold 2 1/4 tons for every foot of length cross-sectional area. 8 x (10-15) = 100 sq. ft. 100 x 45 lbs. = 4500 lbs. To feed 15 cows 50 lbs. each per day for 200 days it will require 15x200x50 = 150,000 lbs. of silage or a silo 35 ft. long.

Time To Cut From an early part of this report it was seen that early cutting was important from the standpoint of palatability and digestibility. Another factor to consider is the yield of grass which will be obtained. Very early harvesting decreases the yield of first cutting but produces a higher yield of aftermath for second cutting or pasture. The total yield of digestible dry matter for the season is the best when the first cutting is harvested when the timothy is heading out but before any bloom occurs. Since yield of forage for the season, palatability, digestibility, resulting milk production and body weight gains all decrease rapidly from forage harvested late in the season, the optimum period for harvesting usually does not extend much beyond a period of three weeks weather it is hay or silage that is being made. This means that in most seasons silo filling should be completed before the end of June. If Timothy is fully in head and showing signs of bloom the grass should be chopped before ensiling and a preservative added. Mature forage will be too woody to pack well and will not have sufficient moisture to make good silage. Ensiling will not improve the digestibility of late cut material. Filling Many different methods have been used to get the grass from the field into the silo. It will vary on each farm according to available farm and machinery. If windrowing is necessary a swath-er attachment for the haymower will eliminate the raking operation. A hay loader is quite suitable for loading. At the silo, the grass may be either forked off or pulled off with slings. Another method that would eliminate much of the hand labor is once filling has been started it is important that there be no long shut-downs as this will result in layers of poor quality silage. The art of making good silage lies mainly in keeping out air. To do this the silo must be tight, have smooth walls and the silage well tamped. A tractor makes the best job of tamping. Special care should be taken along the sides and corners. The silo should be topped off with 1-2 ft. of wet green material to help keep out air and to pack the lower layers. The silage should be thoroughly tramped every day for 5-7 days after filling is completed. Valparaiso, the chief seaport of Chile in South America, was founded in 1543. Copenhagen, capital of Denmark, started as a fishing village in ancient times.

When Children's Eyes Are Bigger Than Their Stomachs There is no need to administer drastic, old-fashioned laxatives which may shock a child's system and leave them feeling weak and listless. Try the new modern help-Children's Own Tablets—made especially for children, from 5 to 15 years, by the makers of Baby's Own Tablets—year after year a guarantee of a reliable product. They go to work at once to help sweeten the stomach, relieve distress and bring about a thorough performance of the bowels in a gentle manner. Get a package today as your druggist.

When Children's Eyes Are Bigger Than Their Stomachs CHILDREN'S OWN TABLETS

We And Our Neighbours

by Ruhamah Scheinfeld Frank

OF THIS AND THAT

Speaking of the comparative nature of Time (as I did last week), what a day was Tuesday, June 21! In the morning I hung around the Columbia University Campus, watching the pretty girls and family groups gathering for the afternoon Commencement exercises. These I witnessed later as a sympathetic bystander in the evening, of course. I saw and heard the Coronation ceremonies over television. As if that weren't enough, came the wonderfully timed British victory over Mount Everest. The high point of these so important hours, to most people, was the Coronation. Between the radio and television coverage of the ceremonies, the excitement here was probably at a great peak on the Island, or anywhere except in London. Myself, I stood for almost two hours, with a hundred or more others, in the television lounge of a news-reel theatre, in the midst of breathless attention. It was indeed a great and moving spectacle and one consolation for you on the Island is that you will surely see it and in all its color and magnificence, at the Prince Edward Theatre, in the near future.

The editorial in the New York Times on the following day, linked the Coronation of Elizabeth and the conquest of Mount Everest, thus: "It was right that the British who tried so often and so gallantly should have been the ones to win out. It is supremely fitting that the British flag should have been planted on the peak of Mount Everest at such a moment as this when Elizabeth was being crowned." Hail the conquering heroes and God Save the Queen!

At the 19th Columbia Commencement exercises, one also felt the deep bond between Britain and the United States, and thus between the United States and Canada and the other nations of the Commonwealth. Over the campus where sat the thousands of degrees, the conferring of degrees on the 61st graduates, flew two banners—one the flag of the United States, the other the bright blue silk pennant showing the British Crown. The words too, spoken by the newly installed president of Columbia, Dr. Grayson Kirk, seemed to express the ideal of universities in Britain and Canada as well as in the United States. "A University," Dr. Kirk said, "is a place in which men with a common purpose, the pursuit of truth, it is a place in which all ideas must be examined, all doctrines weighed, all beliefs tested. And this is true of economics, politics, and philosophy, as of science, medicine and engineering. Within the lecture halls and laboratories of a truly free university lie man's best hope of a brighter future. No individual, and no group outside the university can be allowed to dictate what shall teach, or what shall be taught."

Speaking of universities and the pursuit of truth and the fact that there is now in New York City, the convention of the American Medical Society, I am reminded of two interesting points made by Dr. Alan Gregg, Vice-President of the Rockefeller Foundation, in a lecture I heard recently. Medical schools, said Dr. Gregg, are hard-pressed for money. The training of a doctor costs far more than the individual has paid. If every doctor would contribute only one hundred dollars a year medical schools could pursue valuable research they are forced to drop for lack of funds. As for nurses, said Dr. Gregg, there seems no good reason why young women should not be required to serve for a certain period as nurses in the same way that the brothers serve in the armed forces. Seems logical, doesn't it?

That Body Of Yours

Continued from page 2

human beings and its chemical and physical characteristics must permeate its administration by various routes into the body, that is by mouth, by injections, and by local application. It must be able to penetrate tissue barriers to reach all organs of the body. It so happens that the size and composition of an antibiotic affects or influences the case with which it is absorbed into the blood stream from the small intestine. Streptomycin, a large size is slow and difficult in absorption, whereas chloromycetin, a small antibiotic molecule, is well and easily absorbed. Of the seven antibiotics in use, two are produced by bacilli (tiny organisms) tyrothricin and bacitracin; penicillin by penicillium molds, and the remaining four by actinomycetes (mold-like bacteria). From the above, physicians, surgeons, and the entire public can rest assured that the search for new antibiotics will be patiently continued and the findings made available to everybody.

The first train drawn by a steam locomotive in the United States ran from Albany to Schenectady, N.Y. in 1831.

Appreciation

The parents of Master Roger Newman wish to extend their deepest appreciation to Dr. Lantz and Rev. Mr. Irwin and to their kind friends, his teacher and pupils for their many acts of kindness shown him during the time of his accident.

CENTRAL GUARDIAN

COOK'S for Perfect Pictures JIMMY'S TAXI - Phone 528. "YOUR DOLLAR BUYS MORE" at the HUGHES DRUG STORE. GIGGIE'S PHARMACY, open this afternoon and evening. CRASWELL for Better Photographs. TAILORED TO MEASURE SUITS \$30.00 up. J. P. MacPherson and Son. KEROSENE, Electric and Propane Gas Refrigerators, Bryenton and MacKay. PRENATAL CLASSES continue at the Health Centre on Wednesday, at 2 o'clock. Expectant mothers are invited to take advantage of the instruction given by the Public Health Nurse at these informal classes.

Friends of Miss Donald MacDonald will be sorry to hear that she is a patient in the Charlottetown Hospital.

Personals

The many friends of Mr. Sadie Vandenberg of this City are glad to see her back again after visiting friends in Montague.

Mr. David Lowther of the H.M.S. Cornwallis, is spending his leave at the home of his parents, Mr. and Mrs. Eric Lowther, Crapaud.

Mr. and Mrs. Leo Carragher left June 5 for their home in Ottawa, Ont., after a delightful holiday with Mr. Carragher's parents at Tyrone, Ont. They also visited relatives in Charlottetown, Kinkora and Merell.

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Annual Meeting Of Ch'Town Hospital Junior League

The annual meeting of the Junior League of the Charlottetown Hospital took place on Thursday evening, May 23, at the Nurses' Residence with 40 members present. The president, Mrs. Alex McIsaac, presiding, opened the meeting with prayer, and then introduced Sr. Mary David who is in charge of the Nursery. The minutes of the last annual meeting were read and adopted. Correspondence consisted of letters of thanks from the Sisters of the Hospital for the splendid work and financial assistance during the year.

It was moved by Mrs. Ed Gallant and seconded by Mrs. Reg Cronin that a cheque be given to the president, Mrs. Alex McIsaac and vice-president, Mrs. Urban McQuaid as delegates to the Maritime Hospital Convention. Reports of the various committees followed: Mrs. James McCallum, Membership; Mrs. John Connolly, Magazines; Mrs. Alban Murphy, Baby Gifts; Mrs. A. J. Gaudet, Sick; Mrs. Ed Smith, knitting report showed a most successful year; and Mrs. Ivan Laurie's sewing report showed that 288 articles had been completed; Mrs. Reg Cronin for Shows and Means reported a busy and profitable year—many projects were undertaken and all proved to be financially successful. The treasurer's report by Miss Ethel Brown showed a substantial bank balance and was approved as read.

The president's report by Mrs. Alex McIsaac which followed was both interesting and inspiring, showing that the year just completed was financially one of the most successful in the history of the club. Election of officers for the coming year resulted as follows: president—Mrs. Urban McQuaid; vice-president—Mrs. Michel MacDonald; second vice-president—Mrs. E. Gallant; recording secretary—Mrs. A. J. Gaudet; corresponding secretary—Mrs. Jack McEachern; treasurer—Mrs. Kim Hughes.

A vote of thanks to the Sisters of the Hospital and the retiring Executive was read by Mrs. Walter Lawlor, chairman of the Resolutions Committee, and a small gift was presented to the retiring president in appreciation for her wonderful work and untiring efforts during the year. The new President, Mrs. Urban McQuaid then addressed the meeting, and asked for the continued co-operation of all the members. The meeting then adjourned.

Mrs. McIsaac in her excellent report commended the work of the various committees, the sewing committee, convened by Mrs. Ivan Laurie, providing for the needs of the nursery, the knitters and their convener, Mrs. Ed. Smith, the telephone committee, convened by Mrs. James Hornby, the refreshment committee and its convener, Mrs. Bernard Hughes, and that of Mrs. A. J. Gaudet and Mrs. Alban Murphy, who took care of the extra-curricular part of the League's activities. Mrs. McIsaac extended the appreciation of the many benefited to the magazine committee, particularly to Mrs. Ed. Smith.

Island Scout's Coronation Diary

By Queen's Scout W. D. Ives

Stepney Green, London On Wednesday, May 27, we woke up to find ourselves in the landlocked harbour of Cork, Ireland. This was a pretty little green spot.

At Cork we left about one-half of the passengers, mostly Irish-Americans, returning to their homeland, for a visit. We proceeded on to Le Havre, France, where we docked the next day, Thursday. Le Havre has quite a bit of bomb damage, still unbuild.

About 3 p.m. we started up the stream to Southampton. On our way we passed the Queen Elizabeth and the United States, on their return trip. We docked at 5 p.m. and ate our last meal on the M. V. Georgic. We disembarked from the boat at 6.15, and boarded the special train for London, where we arrived at 9.05. We were met by some Scouts stationed at Roland House, who had a truck for our baggage.

From London's Station, the largest in the world, we took the underground to Stepney Green. These underground trains travel very fast, and in very little time we were in Stepney Green, a distance of 4 or 5 miles from the railway station.

On Friday, May 29, we went to St. Paul's Cathedral. Here we went down into the Crypt. On the right hand side of the door, as we entered the Crypt was a bust of Sir John Alexander MacDonaid, the first Prime Minister of Canada. Further on we saw the gun carriage that took the Duke of Wellington's body to St. Paul's Cathedral for burial. This carriage weighed 18 tons and it took 100 men 18 days to build it in 1815. From the Cathedral we went to the Guildhall Museum. This was an interesting trip as we saw ancient armour, and such things.

On Friday evening, we were invited to the Special Council Meeting at the Borough of Heston and Elsworth. In the Town Hall we were honoured by a high tea, which was just what was needed, as we were getting very tired.

During the meeting, one of our Assistant Scoutmasters, Mr. H. B. Mortlock gave a short talk, thanking the Council for the kindness shown to the members of the Canadian Boy Scout contingent to the 1951 World Jamboree. Johnny Phillips remembers the Council of this Borough.

After Scoutmaster Mortlock's talk, our Scoutmaster, Mr. J. Barry Cook, presented the Mayor and Council with a gavel and soundboard, in appreciation of the kindness mentioned by Mr. Mortlock. Later on we were formally presented to the Mayor. As each individual went to the Mayor, our Scoutmaster called our names and where we were from. I was from "The Island", the "the" was pronounced as "THEE", so that should end any quarrel between "The Island" and "THEE Island". We got back to Roland House and bedded down about 11:30 p.m.

On Saturday we went to the British Museum where we saw ancient Roman, Greek and Egyptian art and sculpture. We saw a mummified body of a man buried in a rock tomb. His skin was like parchment. We also saw mummified dogs, calves, cats, hawks, and many other specimens.

Later on we saw Anglo-Saxon beaten gold plates, for horses and men, used for protection. Pretty heavy and expensive protection I would say. After dinner we went to Madame Tussaud's Wax Museum. The first thing that caught our eyes was the models of Her Majesty Queen Elizabeth II and the Duke of Edinburgh.

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Charlottetown Chess Club Tournament

The Charlottetown chess club reports that progress is being made in completing a tournament started some weeks ago. Three teams consisting of seven players each are competing. Each player of a team plays all the other members of his team, and the player gaining the most points is declared his team winner.

To date, Johnnie MacInnis and Loumer (Pop) Cudmore are winners in their respective teams. In the instance of the third team, two players, Mr. Ev. MacNeill and Mr. Rozman have to complete one game before a winner is decided. It is expected that when a city champion is selected from these three winners, the competition will be thrown open to all players on the Island.

Address and Presentation

Following the annual meeting of New Glasgow-Hunter River Glee Club on Thursday, June 4, a presentation of an only singing ring was made to the club director, Mr. W. K. Rogers by Mrs. Blair Andrew and the following address was read by Mrs. Frank Bagnall.

Dear Bill, We, the members of this group, feel that it is only appropriate at this moment to give recognition to the vital work that you have done on our behalf. Inasmuch as you have been instrumental in forming our group and responsible for our guidance and training, it is only fitting that any degree of success we may presume to have attained be credited in turn to you.

Others have spoken more eloquently of your abilities and background as a musician and composer than we pretend to be able to. But we wish to mention how much it has meant to us that you have given freely of your talent and yourself to our advantage. We are appreciative of the high calibre of training that has been accessible to us, the valuable time you have sacrificed in our favor, and the intense work you have done in training us. We hope only that we are in some way worthy of your patient and diligent efforts.

We ask your acceptance of this gift which merely represents the very real appreciation we share for you as a musician, as a teacher and as a friend. Along with our expression of thankfulness for your devoted service we wish to extend our felicitations concerning your recent achievements. Here also it has been a personal joy to each one of us to share the happiness that is yours as we look with pride to your career as a creator of significant music.

On behalf of the Club.

Bathroom fixtures brighter than ever, says young housewife

Do you like the bathroom fixtures to really shine, especially when company comes? Then read what this young housewife has to say: "Nothing I tried would brighten my bathroom fixtures. I did one day a neighbour recommended New Sunlight Soap. It certainly makes my whole bathroom, including the tile, really shine."

You'll find New Sunlight has a score of uses around the home. Gets the family laundry whiter and brighter. Gets the dishes, pots and pans brighter. Use it for washing woodwork, floors, linoleum. Nothing can take the place of Sunlight—it washes everything washable. New Sunlight is Canada's favourite bar soap. It's all pure and extra soapy. Your hands will love it. Get New Sunlight this very day!

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"SPEEDY" HORNE MOTORS. HAVE THE BEST USED CARS IN TOWN. IF THAT'S SO, WHY AM I LAYING FLAT ON MY BACK IN THAT GUTTER? SO YOU HAD A FIGHT WITH SOMEONE. DID HE DO YOU ANY HARM? NONE TO SPEAK OF, BOSS—BUT HE WAS WAVING AROUND SO FAST, THE DRAFT MIGHTA GIVE ME A COLD. HORNE MOTORS LIMITED CHEVROLET & OLDSMOBILE Sales & Service

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