

Agricultural News

P. E. I. Department of Agriculture

Feeding Fundamentals (4)

This is the fourth in a series of articles dealing with the Nutrient Factors needed for the use of Dairy Cattle. A condition "grass tetany" is associated with a lack of Magnesium. This mineral is probably necessary for normal bone formation. However, the feeding of large amounts causes a loss of calcium from the body and is thus harmful. It has been believed that a good ration probably carries an adequate amount without additional supplementation.

However, some soils need water soluble magnesium in a fertilizer to produce good crop yields. It is possible that cattle—fed roughages grown on such soils would be benefited by Magnesium supplementation.

MANGANESE. Numerous soils have been known to need manganese fertilization for proper plant growth and chlorophyll formation. Manganese is known to be effective in preventing slipped tendons in poultry. It is essential for normal blood formation. Like other animals, cattle require Manganese. The actual amounts needed are not known, but a deficiency in normal rations have not been determined.

IODINE though needed in only small amounts, it is an essential mineral. Without it Goiter or Big Neck results in calves. It is not felt that this presents any problem in this Province. **COBALT.** This mineral though needed in only a very small amount, is essential for normal health and normal blood formation. Without it anemia develops due to failure of hemoglobin formation. Deficiencies of cobalt have been shown only in cattle and other animals such as sheep and goats which have a rumen. It is believed by some people that cobalt may be related to optimum development of bacteria and bacterial action in the first stomach. The symptoms of cobalt deficiency in cattle occur most frequently in young stock and are characterized by a poor appetite starting with the refusal of grain, thenilage, and sometimes even hay and water. Constipation usually develops—sometimes diarrhea. The rear flank becomes "tucked up," the hair is dull and the hide thick and tight. Also, it is considered by some workers that it plays a major role in certain types of acetonemia. However, this is found to be a variable factor and then sometimes observed in conjunction with lowered phosphorus utilization.

Cobalt can most satisfactorily be administered carefully, mixed either in the concentrate ration or salt and it also can be administered by mouth. **IRON and COPPER.** These minerals are also needed in small amounts and are essential for normal blood formation. Iron is

a part of the hemoglobin or the red coloring matter of blood cells. It is difficult to differentiate an iron deficiency from a cobalt deficiency.

Copper, while not a part of hemoglobin, is necessary in some way for its formation. There are a number of other minerals essential for dairy cattle, but the small likelihood of their deficiency and our limited knowledge concerning them does not warrant their further discussion at this time.

Cleanliness of Milk and Cream

When milk and cream comes in contact with anything that is unclean whether it is the cow, the udder, the stable air or the milk utensils it is detrimental to its quality. Damage to milk also may result from absorbing objectionable flavors and odors or from contamination with undesirable bacteria. In most cases the product suffers from both causes. It is, therefore, of the greatest importance to produce milk and cream with due regard to cleanliness and sanitation.

The barnyard should be kept dry and free from manure so that the cows are not compelled to wade deep in barnyard mud before they enter the stable. The stable must be kept free from abnormal accumulation of dirt and manure. The manure must be removed at least once daily. The bedding must be kept clean and the stable sufficiently ventilated to eliminate strong animal and manure odors. The walls and ceiling should be swept clean at least once a year and coated with lime. There should be no dust or odor in the stable air at milking time either from feeds or from sweeping. The milkers should have a sufficient sense of cleanliness to milk with clean dry hands and to protect the milk from a contamination with dust, dirt and other impurities. His idea of sanitation and cleanliness largely controls the presence or absence of contamination at milking time.

The utensils must be clean and as nearly sterile as possible. To accomplish this all pails, dippers, strainers, coolers, cans etc. should be rinsed with lukewarm water, washed with hot water and a little washing soda, using a brush, not a cloth and scalded with boiling hot water or steam if steam is available.

Cows must be kept clean. The street way to keep their udder and flanks clean and free from filth and manure is to provide a clean, dry yard, and clean bedding in the stable. Udder and flanks should be wiped off with a clean, damp cloth before milking commences. The currying of the cows should be done after, not before milking.

To many separators in this Province are kept in stables and other unsanitary places. It is naturally a collector of many impurities contained in the milk. These impurities are found in the separator slime which is deposited on the wall between the internal contrivances of the bowl. The separator slime consists of viscous, nitrogenous matter contained in the milk and a large portion of the dust, dirt, and bacteria which may have reached the milk at milking time. The separator bowl at the end of each separation contains remnants of milk, cream and skim milk, all of which will decompose and ferment unless removed promptly.

If not washed and freed from all these impurities of the previous separation, the separator bowl becomes the seat of contamination, and the source of unclean, unwholesome and filthy cream, the results of which no care or treatment of the cream can overcome. Not only should the bowl be washed after each separation but the washing must be thorough. The most aggravated case of result from the use of separators, the bowls of which are never washed entirely clean. It is therefore a very difficult matter for any Dairyman to produce good, clean flavored cream and keep his separator in unsanitary surroundings. In almost every case where

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DR. J. P. SWEENEY'S Office will be closed from August 28th to September 3rd.

BE A BLOOD DONOR THIS WEEK AND HELP SAVE LIVES — you can easily do this if you are in good health and between the ages of 18 to 65 years.

cream is found to be of poor flavor and possibly rejected at the creamery by the inspector or by the manager, it is found that the separator from such a place is kept in the stable. It is therefore, imperative for the production of good quality cream and butter that these instruments of contamination be removed to a suitable milk house near the stable where the air is not contaminated and where the surroundings will be kept in a clean and sanitary condition.

Canning

This is the season of canning and preserving and in homes throughout the provinces, jars and cans are being filled and processed with the products of garden and orchard. Preserve only mature, well ripened fruit and vegetables without spoilage spots or blemishes if a top quality canned product is to be the result. Choose either cans or jars. For some time cans were more popular than jars and if cans are used be sure they are sealed when very hot to avoid "air bumps" occurring in the cans during processing. Class jars are coming into their own again in popularity both for home and commercial canning. Many home-makers like to see the rich coloring of fruit and vegetables in gleaming rows on their storage shelves. Jars with screw tops are preferable to those with spring seals.

A familiar and troublesome problem in home canning is loss of liquid from jars of food during the canning process. The housewife who puts jars of food in the canner, all nicely filled and well covered with protecting liquid, may come out with part of the food bare and unprotected at the top of the jar. This occurs most frequently when using a pressure canner but may also occur when the hot water bath is used. Uncovered food is apt to lose its appetizing colour, texture and flavour as the jars stand in storage.

Considerable research on this problem has been conducted at the Nebraska Experimental Station and some solutions have been found to prevent loss of liquid in canning vegetables and other foods under pressure. First leave enough headspace at least three-eighths of an inch for pint jars and three-quarters of an inch for quart jars. This allows the contents to expand without overflowing the jars.

A tight closure helps to hold in the liquid too and this can be achieved on the newer jars with the self-sealing compound and metal band. The three-piece top with zinc ring, glass and rubber ring, cannot be completely sealed so some loss of liquid is unavoidable when using this type of jar but sufficient headspace helps.

If a steady pressure is maintained throughout the processing period loss of liquid will also be minimized. Excellent booklets on the canning and freezing of fruits and vegetables can be obtained from the Women's Institute Branch, Department of Agriculture. Numerous requests for freezing information have been received this summer and questions regarding the freezing of vegetables. Although tomatoes do not freeze successfully, tomato juice does. Wash, sort and trim firm, vine ripened tomatoes cut in quarters, or eighths and simmer for five to ten minutes. Strain and add 1 teaspoon of salt for each quart of juice. Pour into liquid freezer containers leaving some head space. Cover and freeze.

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

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PIANO LESSONS classes resumed (beginners preferred) Mrs. W. P. Gordon. Dial 6270.

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

DRAWING POSTPONED — The Charlottetown Lion's Club Television drawing has been postponed until Sept. 30.

ATTENTION GUIDERS — A special meeting of the Guiders Club will be held at Mrs. Leslie McKay's home, Second St., Parkdale, Thursday evening at 8 p.m. A full attendance is requested.

CLINIC CANCELLED — Due to the Annual Meeting of the P. E. I. Medical Association, the regular Chest Clinic at the Provincial Sanatorium on Friday, September 3, 1954, has been cancelled.

Personals

Mr. and Mrs. Henry Blanchard, Carole Anne and Terrill, left Friday, to spend their holidays in Quebec City. They will also travel to Montreal and other cities in the Eastern United States.

Master Charles S. Cuddy Graves son of Mr. and Mrs. C. S. Graves, city, arrived home on Aug. 30 after spending seven weeks as a Senior Leader at R. C. Army Cadet Summer Camp, Camp Debert, N. S.

Dr. and Mrs. Walt Phillips from North Burlington, N. J., discoverer of famous P-5 drug for specific treatment of rheumatoid arthritis, and P-6 for treatment of allergies, is staying at the McCoubrey farm in Cavendish.

Strange But True

By F. H. MacArthur
It is interesting to note that British Columbia and Alberta have the highest old age pension rates — \$50 a month!

But let's cross the border into the United States and we find an old-age pension rate that just doesn't make sense. Colorado pays its old citizens \$85 a month (the highest), Mississippi and Arkansas pay them \$25 a month (the lowest), and the national average is \$54 which is considerably less than Canada pays the average older citizen. No doubt all persons 70 and over would like to be getting Colorado's rate. And they should be.

Did you know that Canada leads all the nations in telephone calls per person per year? Record: Canada 389 calls. The U. S. is second with 352 calls. Who said Canadians are dumb? Statistics show that families today are smaller with most of the children born while parents are young, so that comparatively few couples at 60 are tied down by the needs of young children.

Asking that no tears be shed at his funeral, Herman Eliassen, of Seattle, Washington, provided in his will for the purchase of a case of Scotch Whiskey to be used at a party to be attended by his friends.

If you are 65 or older and still physically fit then remember that farming provides the biggest source of employment in Canada. A report has just reached me that 8,000 persons "of retirement age" are now making a comfortable living on farms.

More than one in every three farms in this country are operated by persons 55 years old or older. Approximately 15 per cent of all farm operators, or more than one in every seven, are 65 or older. Conversely, there has been a long-term decline in the number and proportion of farmers of the younger age groups, especially in the case of those under 35. It doesn't take much dime nursing to make a dollar depression. Another vicious circle is the one that most of us struggle around in trying to make ends meet.

Wouldn't it be a fine idea if our government would put all of our ancient mill ponds on their feet. More than a century ago a small success story could have been written around scores of grist mills. The lure of an old-fashioned water mill would be hard for the average tourist to resist. And what is more picturesque than a pond of sparkling fresh water with numerous speckled trout leaping about for flies.

As high as the divorce rate is, it would be higher were it as easy to get a divorce as it is to get married.

Much — perhaps too much — has been written about today's "problem children" tending to obscure the good works of our younger generation. On the credit side, for example, is the gracious deed by a high school senior at Mahomet, Illinois. Instead of using 800 saved for a vacation trip for the purpose intended, he turned the money over to his teacher whose house had burned.

It is an act of consideration and helpfulness which speaks for itself. The population of Wellston, Oklahoma, is only 630, but Sunday School attendance in the town's churches, April 25th totalled 692.

Ruhamah Scheinfeld Frank

We and Our Neighbors

Retarded Swallow

Our garage tenants, the Swallow family of whom I wrote several columns back, haven't been around much this year, and I believe I know the reason. They still resent the comments of their neighbours, the Chimney Swallows, about Junior, their retarded child. Junior's failure to leave the home base longer after (by swallow time) the other fledglings had taken off was really a distressing experience. Father Swallow thought it was just laziness, or worse, wilful disobedience. The young one's wings were strong enough; nothing was wrong with his sight or hearing. He could see and hear his mother bringing him food, all right. He just didn't want to try, or refused to follow his parents' instructions.

Nothing like that had ever happened in his family, said Mr. Swallow. What a trial to have such a son! He urged, scolded, shamed, but the young one did not leave the shelter of the garage.

"Patience," pleaded Mother Swallow. "It isn't the poor child's fault. Maybe he didn't get his corner of the nest, quite long enough." She tried to make up to her slow child by extra attention, extra food and over and over again she showed him how to poise his body, set his feet, move his wings.

But there he perched (I saw him) hour by hour, time, weeks by time. First he did not leave the rim of his nest. Then for a day he clung to the lowest electric wire. Finally on the third day he had gained the top-most wire in the garage.

This was hard enough on his father's pride and mother's tenderness, but Junior's slowness was the subject of much spying and gossiping on the part of the Chimney Swallow Clan. That was almost unbearable!

"What a misfortune to have a retarded child," cheeped Mrs. Swallow to her friends on the electric wire above the kitchen. Every single one of both my broods fitted exactly the "Behavior Schedule for the Average Swallow," of the eminent Dr. Donald Bedell Swallow. My young ones raised their heads, opened their beaks, gave their first cheep, feathered their wings, and of course, flew from their nests, on the split second foretold by Dr. Donald Bedell. But this poor fledgling will probably have to be fed in the garage for the rest of his life.

Mrs. Chimney Swallow didn't bother to lower her voice. All the neighbours heard her; Father and Mother Swallow heard her, and of course poor little Junior. But nobody minded what was said in front of him. He was just too dumb to understand!

How disappointed were those who hoped for the worst! For on the fourth morning, the solitary little figure I had seen on the garage wire at dusk, was gone — and for a week there was silence.

Then suddenly they were back, and once more there was color and song and movement around the house. But evidently they had only returned to make sure that things were on order for the following Spring. In any out of the garage they zoomed, by twos, by fours, inspecting the old nest.

One was a bit quieter, perhaps. A bit more reserved. One, the

smallest one, sat the longest while I spoke to him. He turned his head more fully toward me. I am sure it was Junior, the retarded child. My Swallows haven't been here since. Last summer they stayed until they flew South. If only the Chimney Swallow had minded their own business. Won't they be chagrined when Junior breaks all the records and wins all the prizes for "Long Distance Flying!"

Blood Donor Clinic To Be Held Thursday At Community Centre

The spacious new Community Centre belonging to the Holy Redeemer Parish has very kindly been placed at the disposal of the Red Cross for the Charlottetown Blood Donor Clinic to be held there on Thursday, September 2nd in the afternoon and evening. The Holy Redeemer Sub-division of the Catholic Women's League, of which Mrs. F. J. Steele is the President, will provide refreshments and workers for this Clinic at which the objective is at least 300 donors from Charlottetown and the surrounding districts. Cards have been sent out to some former donors who have not recently attended Clinic, in the hope that they will report themselves and bring others with them.

All who can manage to get off in the afternoon are urged to attend then and in this way overcome the waiting which usually occurs if everyone waits until the evening.

APPOINTED DIRECTOR

OTTAWA (CP) — James Allan Murray, 42, has been appointed director of organization and classification, the civil service commission announced Monday. He succeeds George T. Jackson, appointed assistant deputy minister of public works last April. A native of Medicine Hat, Alta., Mr. Murray is a graduate of the University of Alberta.



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HER NECK UNTIL SHE IS OLD ENOUGH
TO MARRY THE YOUTH WHO LOST IT!

IRON LUNG FUND

Polio myelitis is believed to be a very common disease and its incidence in this country has apparently increased considerably over the past ten years, judging by the number of reported cases.

As there is no protection against this disease at present it is most essential that an adequate supply of the best equipment be available for the treatment of severe cases. The respirators or "iron lungs" at present in our hospitals have been in use for many years. It would appear that additional modern respirators should be available in the three larger hospitals in the Province to meet any emergency in which their use would be indicated.

Both the Department of Health and the P. E. I. Medical Society endorse the campaign being sponsored by the P. E. I. Polio Chapter, known as the IRON LUNG FUND, for the purchase of three modern respirators.

J. H. SHAW, M.D., President, P.E.I. Medical Society.
B. EARLE MacDONALD, Minister, Dept. Health.

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It doesn't take much dime nursing to make a dollar depression. Another vicious circle is the one that most of us struggle around in trying to make ends meet.

Wouldn't it be a fine idea if our government would put all of our ancient mill ponds on their feet. More than a century ago a small success story could have been written around scores of grist mills. The lure of an old-fashioned water mill would be hard for the average tourist to resist. And what is more picturesque than a pond of sparkling fresh water with numerous speckled trout leaping about for flies.

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It is an act of consideration and helpfulness which speaks for itself. The population of Wellston, Oklahoma, is only 630, but Sunday School attendance in the town's churches, April 25th totalled 692.

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*HERE'S THE SECRET!

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