

Agricultural News

P. E. I. Department of Agriculture

FEEDING FUNDAMENTALS (5)

This is the last article in a series of five concerning the Nutrient Factors need for the use of Dairy Cattle. In the previous articles we have considered a consideration of Ruminant Digestion, Fats, Carbohydrates, Water and Minerals. In this article we will deal with Vitamins and Hormones as Nutrient Factors.

VITAMINS. During the past 25 years no phase of nutrition has received more attention than vitamins. Progress has been rapid, but our present knowledge of vitamins is still far from complete. For the various vitamins, their definite chemical compositions and structures have already been determined. The actual daily amount of a vitamin required by an animal is extremely small — in some instances an amount too small to see with the naked eye. Essential for life.

This discussion will be limited primarily to those vitamins likely to be deficient in dairy rations.

VITAMIN A. This vitamin is essential for growth, reproduction, persistency of milk production and the efficient use of several minerals and other vitamins. A severe deficiency causes night blindness, eye disorders and a low resistance to colds and infections.

Vitamin A occurs in plants as carotene or provitamin A, which animals are able to convert into vitamin A. Rich sources are green pasture, well-preserved silage, green, leafy hay, and cod liver oil. Carotene and vitamin A are readily destroyed in materials exposed to sunlight or stored at warm temperatures. Alfalfa and other plants dried without exposure to sunlight give us one of our richest sources.

Skim milk, bleached hays, dried-pasture and all grains, with the exception of yellow corn are very low in Vitamin A.

A Vitamin A deficiency is likely to occur in calves fed largely on skim milk or on whole milk from cows fed on a low Vitamin A ration. It may also occur in pregnant cows fed bleached and poor quality roughage, particularly during the last few months of the winter feeding period. The most evident effect this is the birth of weak or premature calves.

VITAMIN D is necessary for proper use of Calcium and Phosphorus in bone growth. The well-known condition of rickets may be caused by insufficient Vitamin D, Calcium or Phosphorus. The first symptom is a crooked or humped neck with a bump on the top line just back of the shoulders. More severe cases develop bowed legs and enlarged joints.

Sun-cured hays, cod liver oil, and irradiated yeast are all good sources of Vitamin D in the body of the calf or cow. Sun-light that has passed through ordinary glass is ineffective.

VITAMIN E. Probably no other vitamin has lent itself to as much controversy and commercialism during the past few years as Vitamin E. It is essential for normal reproduction. Its widespread distribution in grains, hay, pasture, and common dairy feeds, along with the low requirements for vitamin E, make a deficiency extremely unlikely. However, occasional favorable results in correcting certain types of sterility, particularly in bulls, have been reported from the use of wheat germ oil which is rich in vitamin E as well as several other factors.

The presence of Vitamin E has a stabilizing effect in Vitamin A. Probably some apparently favorable results from Vitamin E are the result of favouring the more efficient use of vitamin A in rations which are near the deficiency level in Vitamin A.

HORMONES — a number of ductless glands in the cow's body secrete into the blood stream specific chemical substances called hormones. These regulate other glands and many body processes. Their interrelationship is complicated.

The use of hormones in sterility have proven to be beneficial but it must be constantly borne in mind that the misuse of such substances can effect great losses and in some instances permanent damage.

CLUB NEWS

The Kensington 4-H Calf Club held their local achievement day on Friday, August 20, at the home of Harold Palmer, Kensington, with Mr. L. W. Roper, of the Federal Department as judge. The following are the results of the season's work in efficiency: Roland Proffitt, first; Stanley Palmer, second; Kenneth Thompson, third; Sharon Clark, fourth; Bertram Palmer, fifth; David Clark, sixth;

Elizabeth Casey, seventh; Edwin Johnson, eighth; Paul Casey, ninth; Douglas Johnson, tenth.

The results of the season's work in judging dairy cattle are: Bruce Main, first; Barney Milner, second; Bertram Palmer and Marlene MacMurdo, third; Kenneth Thompson, fourth. The results of the Showmanship Class with calves are: Stanley Palmer, first; Roland Proffitt, second; Edwin Johnson, third; Paul Casey, fourth; Douglas Johnson, fifth.

Following the business portion of the achievement day, various games of sport were conducted with the following race results: Girls under eight, Sharon Clark, first; girls up to twelve, Norma Proffitt, first; girls over twelve, Gwendyth MacMurdo, first; boys up to twelve, Paul Bernard, first; boys over twelve, Fred Bridgis, first; free for all — Fred Bridgis, first; small children — under seven, Andrea Johnson, first; married women, Mrs. Casey, first; married men, Art Proffitt, first; jockey race Fred Bridgis and Paul Bridgis, first; boys bag race, Paul Casey, first; girls bag race, Nancy MacMurdo, first; boys wheelbarrow race, Paul Bernard and Fred Bridgis, first; girls wheelbarrow race, Sharon Clark and Nancy MacMurdo, backward race, Fred Bridgis, first.

The Club would like to take this opportunity of thanking Mr. L. W. Roper, Harold Palmer and those who were responsible for making this achievement day a highly successful and educational event. This club is composed of Holstein and Guernsey calves.

On Monday, August 23, the St. Philip Calf Club held their achievement day at the Mt. Carmel-Egmont Bay Exhibition Grounds with Mr. L. W. Roper of the Federal Department of Agriculture presiding as judge. The results of the season's work in order of efficiency are: Cyrus Gallant, first; Florence Bernard, second; Norma Gallant, third; Melvin Bernard, fourth; Paul Bernard, fifth; Melvin Bernard, sixth; Lois Cormier, seventh; Margaret Berra, eighth; Leonard Arsenault, ninth; Edward Arsenault, tenth.

The results of the season's judging of dairy cattle are: Cyrus Gallant, first; Leonard Arsenault, second; Melvin Bernard, third; Raymond Bernard, fourth; Zenon Arsenault, fifth. The results of the Showmanship Class with calves are: Melvin Bernard, first; Florence Bernard, second; Edward Arsenault, third; Paul Bernard, fourth; Margaret Bernard, fifth.

The Club would like to take this opportunity of thanking all those people who contributed to the success of this program and extend congratulations to the St. Philip Calf Club members on the excellent manner in which their calves were trained. This club is composed mainly of Ayrshire calves and two Guernseys.

The Abiteau Calf Club of Tryon held their local achievement day at the Abiteau Exhibition. This club is composed of Holstein and Shorthorn calves.

The results of this club's achievement day are as follows in order of merit for the season's work with Holstein calves: Marlene Thompson, first; John Thompson, second; Ralph Thompson, third; George Paynter, fourth; David Best, fifth; Robert Muttart, sixth. The results in order of merit for members owning Shorthorn calves are: Boyd MacDonald, first; Allison Robblee, second; Jean Robblee, third; Barbara Smith, fourth; Ruth Robblee, fifth.

The results of the class in Showmanship are: Boyd MacDonald, first; Marlene Thompson, second; Barbara Smith, third; George Paynter, fourth; John Thompson, fifth. The results of the season's judging of dairy and dual purpose cattle are: Marlene Thompson, first; Janet Howlett, second; Boyd MacDonald, third; John Thompson, fourth; Barbara Smith, fifth. The results in the Yearling class are: Marlene Thompson, first; John Thompson, second; Ralph Thompson, third; Janet Howlett, fourth.

The Northam Holstein Calf Club held their local achievement day at the Northam Hall on August 26, with Mr. L. W. Roper at judge. The results of the season's work in order of merit are: George Dymment, first; James Dymment, second; Norma Dymment, third; Clifford MacArthur, fourth; Ronald MacArthur, fifth; Dorothy Dymment, sixth; Roy Newcombe, seventh; Arthur Ellis, eighth; John New-

combe, ninth; Major Rodd, tenth; Erwin Ellis, eleventh.

The results in the Showmanship Class are: Norma Dymment, first; Dorothy Dymment, second; James Dymment, third; Erwin Ellis, fourth; Ronald MacArthur, fifth; Lois Cormier, sixth. The results of the season's judging of dairy cattle are: James Dymment, first; Ronald MacArthur, second; Charles Dymment, third; Roy Newcombe, fourth; George Dymment, fifth.

The Guardian Page 3
Wednesday, Sept. 8, 1954

CITY & DISTRICT

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CINEMAPHONIC FEATURE — A short picture in cinemascope, shown to local press representatives at the Prince Edward Theatre yesterday, featured the amazing new sound effects produced by cinemaphonic equipment. The picture closed with a full orchestral rendering of Tchaikovsky's Waltz of the Flowers.

25th WEDDING ANNIVERSARY — A pleasant evening was spent at the home of Mr. and Mrs. George Cole, Stanley Bridge, on Aug. 27, when friends and neighbors gathered to celebrate with them the 25th anniversary of their marriage. Mr. Harold Mayhew called the gathering to order and Miss Beverley MacEwen presented Marion with a beautiful bouquet. An address was read by Mr. H. S. MacEwen and a chest of silver and purse presented by Mrs. Mont MacEwen. This was followed by a presentation from New London Women's Institute by Mrs. Fred MacEwen. Douglas and Betty presented their parents with a mirror on behalf of the family.

The O'Leary Maple Leaf Holstein and Guernsey Calf Club held their local achievement day on Wednesday afternoon, September 1, at the Alberton Exhibition. There are 17 members enrolled in this club with eleven members showing calves.

The results of the season's work in order of merit are: Elaine Palmer and Rankin MacKinnon tied for first; Dana MacNeill, second; Lloyd Kelly and Fenton Shaw, third; Perley MacNeill and Valerie MacWilliams, fourth; Marlene Palmer and Mancy MacKinnon, fifth; George MacKinnon, sixth; Eric Phillips, seventh.

The results in Showmanship are: Rankin MacKinnon, first; Lloyd Kelly, second; Elaine Palmer, Marlene Palmer, fourth; Fenton Shaw, fifth.

The results in the Season's judging of dairy cattle are: Fenton Shaw, first; Elaine Palmer, second; Dana MacNeill, third; Rankin MacKinnon, fourth; Perley MacNeill, fifth.

A great deal of individual instruction has been given to the Prince County Calf Clubs and we would like to take this opportunity of congratulating those boys and girls in the various clubs on the wonderful job they have done in showing off their calves to the best advantage in the judging ring.

The results of the class in Showmanship are: Boyd MacDonald, first; Marlene Thompson, second; Barbara Smith, third; George Paynter, fourth; John Thompson, fifth. The results of the season's judging of dairy and dual purpose cattle are: Marlene Thompson, first; Janet Howlett, second; Boyd MacDonald, third; John Thompson, fourth; Barbara Smith, fifth. The results in the Yearling class are: Marlene Thompson, first; John Thompson, second; Ralph Thompson, third; Janet Howlett, fourth.

Ruhamah Scheinfeld Frank

We and Our Neighbors

School Doors Open

With the opening of the school year, parents must regret the days gone forever when school subjects and school methods seemed fixed once and for all and no soul-searching question had to meet some solution.

One such question is implicit in the stand taken by an important superintendent of Canadian schools as reported over the radio last week. This is a competitive world, said the superintendent, and the weaker child learns it, the better. Hence, the examination system would continue in his schools he said, though mental health experts didn't approve.

This school superintendent did not advocate examinations as an aid to learning subject matter, or character building, or what not—

bluntly he stated that the child must become aware as quickly as possible that he was born into a competitive world. Perhaps he is right. Perhaps the best of the modern schools that attempt to instill cooperation rather than competition are wrong. Perhaps the new ways of encouraging the child, patiently and kindly to compete with and improve on his own past performance rather than to try to get a head of his classmates is an unrealistic approach to life as it is—and obviously is expected to remain. Competition, or cooperation, or competition that permits the generous practice of cooperation, which shall be the governing principle in our schools?

And if it is to be competition, and if the sooner the better, how

soon? Shall we let Johnny grab and keep Tommy's rattle? Shall we and scratches and breaks the toys of his weaker neighbours?

There are deep and fundamental problems and plenty of other troubling questions that confront the conscientious parents and school authorities. For parents who would like some help in thinking through the answers, the "Encyclopedia of Educational Research," published by Macmillan, New York, 1952, offers an extensive body of the most authoritative studies in education.

For example sooner or later the importance of Latin and Mathematics will be urged because they train the mind and develop the judgment and so forth. In the Encyclopedia we find there is no evidence "to support the theory that the mind is made up of such general faculties as reason, imagination and memory which like muscles are capable of being strengthened by exercise. Instead there appeared to be innumerable reactions and techniques that usually must

be acquired one by one."

Or, does the feeling still persist that the present generation is slipshod in its spoken and written English because formal English grammar isn't taught as intensively as in years by? If the innumerable studies made can be trusted, "a knowledge of formal English grammar appears to have little beneficial effect on the ability to speak or write good English."

Does strict discipline in the classroom lead to good behavior in other places? It is pointed out that the rigid discipline on board a ship, or in army barracks, hardly insures good behavior when the men are on leave!

Do courses in hygiene lead to health, and courses in civics to good citizenship? In civics, is it true, as many believe, that practice follows precept? Scientific methods of research indicate that you can get "ideas about health" from a textbook course in hygiene, but not health, and by the same token good citizenship can never be acquired through books and lec-

tures on the subject. It is well for the peace of mind of parents and school authorities that they are only partly responsible for the education of the child. The church, the club, the entire community are involved and everything that happens in the world beyond.

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