

# OF INTEREST TO FARMERS

## THE VALUE OF CULLING AND SELECTING THE DAIRY HERD

(Experimental Farm notes)

For the past eight years an experiment in the grading up of a herd from the common stock of the district by the use of pure bred sires from high producing cows has been carried on at the Experimental Farm at Nappan, N.S.

All females, good and poor alike have been retained in the herd because it is the usual policy followed by the Experimental Farms for experimental purposes. A herd has been kept of all feed animals and all milk produced has been weighed and tested for butter fat content. Thirty-five have completed one or more lactation periods.

When checked up by the feed scales, milk scales, and Babcock method, eighteen cows in the experiment that had completed their sixth lactation period gave an average yearly production of 268 pounds of milk testing 3.56 per cent fat and yielding 225.24 pounds of butter, at a feed cost of \$4.18. The average profit over feed was \$23.02 or \$414.36 for the lactation. The above average production of milk is higher than that of the average dairy cow of the Dominion and may be considered as high enough to keep the cow out of the boarder class but not high enough to return much profit. Let us see how selection would have affected the above mentioned results.

An examination of the records shows that 8 of the eighteen cows gave less than 5000 pounds of milk, and of these two gave less than 4000 pounds and one less than 3000 pounds. Taking 5000 pounds as a fair standard of milk production, 44.5 per cent of the group would have had to be culled out. The ten remaining cows gave an average yearly production of 6276.8 pounds of milk testing 3.6 per cent fat and yielding an average of 264.46 pounds of butter. The cost of feed averaged \$5.65. The average profit over feed was \$24.18 or \$341.80 for the lactation.

That is the ten good cows gave within \$72.56 as much profit as the eighteen. In other words if the 8 poor cows had been culled out \$417.74 worth of feed would have been saved. This together with the profits realized from the ten good cows, is \$759.54 or \$314.18 more profit than was realized from the full group of eighteen cows. Who would feed eighteen cows if he could get greater profit from feeding ten?

The efficiency of the Babcock test was also brought out strongly by this experiment. For example, of two cows, one gave 6,350 pounds of milk testing 2.9 per cent fat, yielding 207.75 pounds of butter at a feed cost of \$56.57 and a profit over feed of \$17.59, while the other gave 3075 pounds of milk testing 4.5 per cent fat, yielding 182.92 pounds of butter at a feed cost of \$37.65 and a profit over feed of \$17.06. From a butter production standpoint these cows were practically of equal value but if milk were the product sold the former would be much more profitable than the latter.

The apparent stomach and heart troubles are generally nothing more than the result of an insufficient supply of pure blood. This anaemic state may have followed some previous illness or an attack of influenza; or it may have arisen from overwork, worry or too little fresh air. To obtain good health the simple and proper course is to build up the blood, but to do this you must select a reliable remedy with a reputation such as Dr. Williams' Pink Pills. These pills enrich the blood which carries nourishment to all the organs of the body and enables them to do the work nature expects of them. Thousands of men and women have proved this for themselves. One of these is Mrs. T. Flynn R. R. No. 1, Erinville, Ont. who says: "Last spring I got into a badly run down condition. I had no energy; work left me exhausted and the least exertion would make my heart palpitate violently. I had often read of Dr. Williams' Pink Pills, and decided to give them a trial and got a half dozen boxes. I had not been taking the pills long when I felt a decided improvement in my condition and by the time I had used the six boxes could do my housework with ease. I can strongly recommend Dr. Williams' Pink Pills to all weak people."

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72.07 pounds of butter at a feed cost of \$52.05 proving a loss of \$27.42. Such a cow might easily be retained in the herd were not these tests applied.

A careful study of the individuals in a herd to ascertain which makes profitable use of the feed consumed is often warranted. For instance, one cow gave 7999 pounds of milk testing 3.3 per cent fat, yielding 310.56 pounds of butter at a feed cost of \$53.33 and profit over feed of \$50.22. Another cow produced 7590 pounds of milk testing 3.7 per cent fat, yielding 330.38 pounds of butter at a feed cost of \$64.43 and a profit over feed of \$49.39. This shows that the latter cow did not respond as economically to feed consumed as did the former for even though she consumed extra feed to the value of \$6.10 and had 4 per cent fat in her favor she made 83 cents less profit.

Moral: Fix a standard of quantity, quality, and economy in milk production for your cows to go by. Buy a milk scale (which may also be used as a feed scale) and a Babcock tester; weed out the star boarders; fit them for the butcher; feed the real producers the extra feed; then watch the profits grow.

## BALANCED RATION FOR WINTER MILKERS

One of the four farm correspondents says he expects to have a good herd of milkers this winter, and asks for a ration that would be "balanced" so as to give good results. He has the following feeds, and expects to purchase some concentrates: Corn silage, alfalfa hay, oat straw, mangels, oats, or oats and barley.

We suggested a ration as follows:

All the corn silage and oat straw the cows can eat, eight to ten pounds alfalfa hay and one-half bushel of mangels per cow daily; oats or barley should be purchased to improve the meal ration, which may consist of about four pounds oats or oats and barley meal, three pounds wheat bran and one pound oil-cake per cow daily, or, feed one pound of this meal mixture for about five pounds of milk produced. A larger flow of milk can be got by feeding more meal—say one pound for three pounds milk, but it is doubtful if such heavy feeding is economical in ordinary milk production. It is all right for test work, or on special occasions but not to be recommended in everyday farm work.

As to method of feeding, it makes little difference what plan is followed, so long as a regular method of procedure is followed and the cows know what to expect. A suggested plan is to feed the silage night and morning with half the meal ration placed on the silage at each feed. At noon the roots, hay and straw are cut, these may be mixed with the silage or pulped roots part of the time for a change, but a cow should have one feed of long hay or straw to furnish bulky filling material that is necessary for cows milking—in fact, for all kinds of cattle, as these have large stomach capacity and need a good deal of roughage in order that they may properly digest their feed.

The big problem is economical winter production of milk is to have the cows change into milk as much as such as possible of cheap, bulky feed, largely grown on the farm, and to feed no more of the expensive concentrates than are absolutely necessary to give good results. While concentrated feed is likely to be much cheaper, this winter than last, the prices of milk and feed are also likely to be lower, hence the expensive feed should be given with an eye on the results obtained at the milk pail.—H. H. D.

## REARING THE DAIRY HEIFER CALF

To raise the standard of milk production and maintain the efficiency of the dairy herd, it is not only necessary to use the most improved sires but particular attention must also be given to the successful rearing of the heifer calves from the best cows.

While there are certain definite principles underlying a successful system of calf rearing, much of the success depends upon the skill of the feeder in studying the individual requirements of the young animal itself.

Care of the cow at calving—If the cow has been dry from a month to six weeks before parturition and is in good physical condition, little trouble is experienced at calving time. If the cow calves in spring while on pasture, little attention while on pasture, little attention is necessary. She should be observed once or twice a day as she calves at other seasons of the year she should be kept in an enclosure, preferably in a roomy box stall, which is well bedded with clean straw. Clean quarters are

essential, as filthy quarters may result in the navel cord of the young calf becoming infected and white scours may result.

Care should be given to keep the digestive system in good condition. A laxative should be fed, Legume hay, corn silage, and a bran mash are all slightly laxative and should be given. If the cow appears constipated and her bowels are not moving freely a drench of epsom salts may be given.

She should be left alone at time of calving unless some assistance is evidently necessary. Cows are more or less subject to retention of the afterbirth, under normal conditions it is expelled within a few hours after the calf has been dropped. Where the cows are in low condition of vitality it may be necessary to remove the afterbirth if it has not been expelled within 24 to 48 hours. It is well to secure the assistance of a competent veterinarian if the dairyman is inexperienced in this operation.

Separation from the cow—As it is the common practice to rear calves by hand, they are separated from the cow soon after calving. Some take the calf away from the mother at once. Others allow it to remain with the cow for several days. The longer it is allowed to be nursed by the mother the more difficult it will be to teach it to drink. It should always be borne in mind that the first milk (colostrum) should always be given to the calf, and not the milk from some other cow. Colostrum has purgative properties which stimulate the calf's stomach and digestive organs, and is especially suited to the requirements of the young calf. It seems preferable to allow the calf to remain with the cow one or two days as it has a beneficial effect on the cow's udder, especially if it is slightly congested.

The stomach of the young calf is so constructed that it requires frequent feeding in small amounts. It is advisable to feed the young calf at least three times a day—morning, noon and night. The milk should be fresh and sweet and of a temperature of approximately 100 degrees. The digestion is very quickly upset by feeding warm milk at one feed and cold milk at another.

Overfeeding is a common mistake and is responsible for many inferior calves. A good practice is always to keep the calf a little hungry. Each calf should be fed separately, as some will drink much more rapidly than others and this will result in overfeeding. The amount to feed varies with the breed and size of calves. For the first two weeks from eight to ten pounds of milk daily should be fed. This amount may be gradually increased until from 18 to 20 pounds are given at the time the calf is six weeks of age. Usually it is not necessary to increase above this amount.

## CHANGING TO SKIM-MILK

The fat of the milk is so valuable that very few dairy calves are now raised on whole-milk. There was formerly a prejudice against skim-milk as it was believed that undersized unthrifty calves resulted. These results were not due to the removal of the fat from the milk on which the calves were fed but to carelessness in management. Because the fat was removed it was believed that more milk should be fed and resulted from overfeeding. The skim-milk calf differs little in size and value from the same animal when raised by the cow.

There are a number of patented milk substitutes, placed upon the market, which are being used with good results. But even when these are used the young calf should be

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Its development should be rapid along the lines of flesh and muscle but not necessarily with fat. The expert horseman pays close attention to the development of muscle but keep away from the coat any thing that will tend to produce puff joints. Heating or fattening

## DARKEN GRAY HAIR, LOOK YOUNG, PRETTY

Sage Tea and Sulphur Darkens So Naturally that Nobody can tell

Hair that loses its color and lustre, or when it fades, turns gray, dull and lifeless, is caused by a lack of sulphur in the hair. Our grandmother made up a mixture of Sage Tea and Sulphur to keep her locks dark and beautiful and thousands of women and men who value that even color, that beautiful dark shade of hair which is so attractive, use only this old-time recipe.

Nowadays we get this famous mixture, approved by the addition of other ingredients by asking at any drug store for a bottle of "Wyeth's Sage and Sulphur Compound," which darkens the hair so naturally, so evenly, that nobody can possibly tell it has been applied. You just dampen a sponge or soft brush with it and draw this through your hair, taking one small strand at a time. By morning the gray hair disappears, but what delights the ladies with Wyeth's Sage and Sulphur Compound is that, besides beautifully darkening the hair after a few applications it also brings back the gloss and lustre and gives it an appearance of abundance.

## STOMACH O. K.

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The apparent stomach and heart troubles are generally nothing more than the result of an insufficient supply of pure blood. This anaemic state may have followed some previous illness or an attack of influenza; or it may have arisen from overwork, worry or too little fresh air. To obtain good health the simple and proper course is to build up the blood, but to do this you must select a reliable remedy with a reputation such as Dr. Williams' Pink Pills. These pills enrich the blood which carries nourishment to all the organs of the body and enables them to do the work nature expects of them. Thousands of men and women have proved this for themselves. One of these is Mrs. T. Flynn R. R. No. 1, Erinville, Ont. who says: "Last spring I got into a badly run down condition. I had no energy; work left me exhausted and the least exertion would make my heart palpitate violently. I had often read of Dr. Williams' Pink Pills, and decided to give them a trial and got a half dozen boxes. I had not been taking the pills long when I felt a decided improvement in my condition and by the time I had used the six boxes could do my housework with ease. I can strongly recommend Dr. Williams' Pink Pills to all weak people."

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parts and oil cake one part should be started, gradually increasing the daily allowance up to from one to two pounds per head, and the turnips may gradually be decreased as there is a tendency for the lambs to develop rather large but weak if the turnip ration is heavy. However, some sheep men seem to have the best of luck with full feeding of four pounds of turnips per head per day.

While sheep will not perhaps drink a great deal of water before lambing if they are getting roots and there is snow available, yet it is a better plan to see that they have access to clean water every day. Salt should be placed where access may be had to it at all times.

As the lambing season approaches, all long wool around the udders should be clipped away and a number of individual pens, 4 feet by 6 feet in size provided, where each ewe may be placed before or immediately after lambing. This plan prevents the downing of lambs by the ewe and enables the attendant to give the ewe and lambs individual attention. When a ewe has twins she is apt to lose one of them if she is in the pen of yard with a flock.—W. W. Hubbard, Supt. Exptl. Station Fredericton, N. B.

## Pimples Have Now All Disappeared

WHY PORT HOPE LADY PRAISES DODD'S KIDNEY PILLS

Miss May Luckey Tells of Her Experience With Dodd's Kidney Pills and Why She Recommends Them to Her Friends.

Trinity College, Port Hope, Mar. 4th. (Special)—"Dodd's Kidney Pills have helped me wonderfully!" So says Miss May Luckey of the place. "For a long time I was troubled with pimples and blotches on my face. Miss Luckey goes on to state, "They were very bad and I did not know what to do.

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If you haven't used Dodd's Kidney Pills for kidney troubles ask your neighbors about them.

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foods should not make up the chief concentrates for the foal. As an aid to the development of muscle and tendons, exercise, is very important. The foal should have a few hours in the yard every day excepting on wet days. If there is a field for it to roam over, when the ground is frozen, so much the better for the colt.

This is also the most opportune time to halter-break. Break him to lead and obey the words of command, which need be but three in number, besides his name, viz., Gee, Haw, Whoa. If he is thoroughly drilled in this fashion with bit and bridle he will never forget it, and will be easier broken on account of his early training.

The foal that is tied up securely is not liable to be a halter-breaker later on. Its legs and feet should be handled; the blacksmith will have an easier task when the time arrives for shoeing.

As to the ration necessary to properly develop the colt without danger of developing puffy joints; it must be varied according to the size and breed of the colt, but under average conditions, three-quarters of a pound well-cured clover, alfalfa or mixed hay daily for each 100 pounds live weight, and two or four quarts of a mixture of oats and bran (equal parts) along with a daily pinch of salt, and plenty of fresh water, should be quite sufficient to keep the colt growing without danger of injuring the quality of the colt in any particular.

The small boy on the farm will take a lot of pleasure in training the foal, and if he is good enough to be shown at the local or any fair, his early training will help to win prizes. With such an object in view, at the word of command the colt should be brought to position, as if posing for a photograph with every foot in its right place, head up and ears erect, showing off to the very best advantage. If this is not practised a home, it is not likely to be performed in the show or sale ring later on.—R. H. H.

## WINTER CARE OF THE FLOCK

One argument advanced for the keeping of sheep more generally upon our farms is that but little labour is involved in the care of the flock. This idea is far too apt to be considered equivalent to "but little attention is required."

It is quite true that no stock requires less hard labour in its care than does sheep, but this does not mean neglect, and this is especially true after the flocks go into the winter quarters with the comparative confinement under cold and storm-weather conditions.

If the breeding ewes have been well seen during the fall months and while in good condition, bred between the 15th of October and the 1st of December they will give a good crop of lambs and wool the next spring, if good treatment is accorded during the winter months.

Free range until the snow comes is generally best for the ewes, but they should not remain out in heavy rains or snowstorms, as a dranching of the fleece may leave the sheep wet and chilled for days.

The best winter quarters for sheep is a shed in a dry location partly open to the south, so that it affords ample air and the flock should have an old motto is "Never close a door upon a sheep."

They should be fed winter rations after the ground freezes, as grass then has but little nourishing power. Plenty of green feed, either in the form of rape, clean turnips or roots is relished at this season of the year and only such hay as will be eaten up clean should be given. The hay is best fed in racks. Some shepherds prefer a rack into which the sheep can get its head, others, including the writer, prefer one with slats placed just far enough part to enable the sheep to enter its nose and pull the hay out. A little hay is pulled out under foot in this way but less is wasted than where the sheep get a chance to get their heads in and muss the whole lot.

When sheep enter their heads into a rack they invariably tear the wool along their necks and spoil their appearance as well as the neck wool.

Whether or not some grain should be fed during November, December and January is a question that must be decided by the sheep owner himself. If the hay is young, cut, well cured and with plenty of clover and the sheep are in good condition, grain is unnecessary. Succulent feed as above mentioned should, however, be provided. After tops are done turnips should be fed daily at the rate of from 2 to 4 pounds per head per day.

As the winter passes a grain mixture of oats 8 parts, bran 2

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Nowadays we get this famous mixture, approved by the addition of other ingredients by asking at any drug store for a bottle of "Wyeth's Sage and Sulphur Compound," which darkens the hair so naturally, so evenly, that nobody can possibly tell it has been applied. You just dampen a sponge or soft brush with it and draw this through your hair, taking one small strand at a time. By morning the gray hair disappears, but what delights the ladies with Wyeth's Sage and Sulphur Compound is that, besides beautifully darkening the hair after a few applications it also brings back the gloss and lustre and gives it an appearance of abundance.

## STOMACH O. K.

Indigestion, Acidity, Sourness and Gases ended with "Pape's Diapepsin"

Millions of people know that it is needless to be bothered with indigestion dyspepsia or a disordered stomach. A few tablets of Pape's Diapepsin neutralize acids and give relief at once.

When your meals don't fit and you feel uncomfortable, when you belch gases, acids or raise sour undigested food. When you feel indigestion, pain, heartburn or headache, from acidity, just eat a tablet of Pape's Diapepsin and the stomach distress is gone.

The cost is so little. The benefit is so great. You, too, will be a Diapepsin enthusiast afterwards.

## Good Health Can Be Yours

If Your Blood Supply is Kept Rich and Red

It is a waste of time and money to fight merely the signs of disease. In the long run you are probably worse off than when you started. What is far more important than you should immediately examine the various symptoms and trace the cause. When you remove the cause, health will be yours. For example, anaemic people often endure months of suffering while treating its symptoms, such as indigestion, shortness of breath, palpitation of the heart and exhaustion after any small effort.

The apparent stomach and heart troubles are generally nothing more than the result of an insufficient supply of pure blood. This anaemic state may have followed some previous illness or an attack of influenza; or it may have arisen from overwork, worry or too little fresh air. To obtain good health the simple and proper course is to build up the blood, but to do this you must select a reliable remedy with a reputation such as Dr. Williams' Pink Pills. These pills enrich the blood which carries nourishment to all the organs of the body and enables them to do the work nature expects of them. Thousands of men and women have proved this for themselves. One of these is Mrs. T. Flynn R. R. No. 1, Erinville, Ont. who says: "Last spring I got into a badly run down condition. I had no energy; work left me exhausted and the least exertion would make my heart palpitate violently. I had often read of Dr. Williams' Pink Pills, and decided to give them a trial and got a half dozen boxes. I had not been taking the pills long when I felt a decided improvement in my condition and by the time I had used the six boxes could do my housework with ease. I can strongly recommend Dr. Williams' Pink Pills to all weak people."

You can get these pills through any dealer in medicine, or by mail postpaid at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

## Don't Fool With Rheumatic Aches

Helps For The Rural Teacher

KEEP A BOTTLE OF PAIN-RELIEVING SLOAN'S LINIMENT HANDY

You need it when the unexpected twinges start—the pains and aches following exposure—sciatica, lumbago, lame back, sore muscles, stiff joints, neuralgia. Forget all about buying another bottle and keeping it handy, didn't you? Get it today—you may need it tonight!

This famous counter-irritant penetrates without rubbing and scatters the congestion. The pain or ache is soon relieved, leaving no plaster or poultice muddiness, no stained skin. Thousands of regular users keep it handy for emergency—they don't suffer needlessly. All druggists—35c. 70c. \$1.40. Made in Canada.

## Pimples Have Now All Disappeared

WHY PORT HOPE LADY PRAISES DODD'S KIDNEY PILLS

Miss May Luckey Tells of Her Experience With Dodd's Kidney Pills and Why She Recommends Them to Her Friends.

Trinity College, Port Hope, Mar. 4th. (Special)—"Dodd's Kidney Pills have helped me wonderfully!" So says Miss May Luckey of the place. "For a long time I was troubled with pimples and blotches on my face. Miss Luckey goes on to state, "They were very bad and I did not know what to do.

"Then a lady friend advised me to try Dodd's Kidney Pills. After using six boxes the blotches and pimples have vanished. I wish to recommend Dodd's Kidney Pills to everyone who suffers with the same disease."

Pimples and blotches are caused by impure blood. The natural way to treat them is to put the kidneys in condition to do their full work of straining all the impurities out of the blood. Dodd's Kidney Pills are purely and simply a kidney remedy. They have been in use in Canada for over thirty years and have made an enviable reputation in the treatment of such diseases as pain in the back, dropsy, urinary troubles, diabetes and heart disease.

If you haven't used Dodd's Kidney Pills for kidney troubles ask your neighbors about them.

## Darken Gray Hair, Look Young, Pretty

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