

TAKING CARE OF DAIRY COWS

Caring for the dairy cows during the winter months requires the strict attention of the dairyman for the best results. A practical dairyman who has made a study of this subject gives his views as follows:

This season of the year is the crucial test of good dairymen. Any one over-seeing the markets for dairy products at this time knows well enough that prices advance by reason of shrinkage. With most farmers it is a very easy matter to get a big flow of milk when



A CHAMPION DAIRY COW.

the weather is warm and pleasant and when nature's food, grass, is abundant. But when this supply is exhausted and the cold weather comes upon us, when the skill and energy of man are required, then comes the real test of a good dairyman. When cows are running up on good after feed or fed plenty of green material, no matter what care they are given, when first stabled they will shrink in their flow of milk.

On the other hand, any permanent shrinkage will not remain unless it be with cows that are nearing the freshening period if they are fed their full winter ration.

Many farmers make the mistake of leaving their cows out too late before stabling them and not feeding enough coarse fodder. At just what time cows should first be stabled is an opinion from which all differ. Many find it a good practice to begin stabling them nights as the nights become cold. Cows lying on the cold earth will produce not only less milk, but be troubled with bug troubles. Especially is this true of fresh cows whose milking machinery is working hard and very susceptible to untoward influences.

One must not think that barn care will alone maintain milk flow; neither will increased feed accomplish the result at this particular season of the year. Any cow whose milk machinery is dwarfed will not respond any more than extra feed will benefit a horse trot fast that has remained idle for a period. How often we fail to appreciate that the course of feed nutrients is somewhat a matter of education! To be sure, a beef cow can be trained to large milk production, but a cow of average dairy conformation, if taken when fresh and fed upon stimulating, milk producing foods, with her individual peculiarities considered, will make a much larger production at this season. The question is often raised that extra feed does not pay until the crucial test comes.

If preliminary care and feeding have been right and the cows are strong, healthy milk producers, there need be but little trouble in maintaining a profitable flow. An essential which must not be omitted is a warm, clean, well lighted and ventilated stable. This must not be neglected. There is certainly a lack of appreciation on this point. No matter what the feed may be, a comfortable stable must be the thing. Another important matter is water. It should be kept before the cows all the time in buckets or any other watering device, suited to the taste of the owner. When turned out for water the cow will not drink uniformly, saying nothing about the chill given by both water and air. Today she does not drink enough; tomorrow she overdrinks. One extreme is as bad as the other. Maximum flow will be

secured only through stable watering. The feeds, home grown hay, silage, straw, etc. are to be used. Especially is it necessary to have some succulent food when taken from grass and for cows that are losing in lactation. They are very susceptible to changes. The grain feed will depend upon the cost of food nutrients in order to secure a balanced ration. If the chemist is of any value, why not use him and learn of those foods that contain the largest amount of digestible protein, carbohydrates and fat and that are purchasable for the least money? The care at this season means the eye and hand of the dairyman. He must as surely live with his cows during the working hours of the day as any business man must stay at his desk in office, no matter what may be his desire, wish or ambition. Results hang upon the time and study given the great American source of profit.

How Feed Affects Butter.

The buttermaker or the creameryman bases his values entirely upon the amount of butter that may be made from a given amount of milk and the quality of the cream. He demands that only certain classes of feed shall be used, because one class will have a tendency to make the butter too soft, another to make it too hard or still another to contribute undesirable flavors. Discrimination must be made in the matter of feeds, resulting in an increased cost. The manufacturers of condensed milk also have an ideal, largely derived from arbitrary considerations, and will purchase milk produced only from certain groups of feed, thus making the cost to the maker much greater.

DAIRY NOTES

An odor will be observed in the milk if silage is fed to cows a short time before milking, but if given shortly after milking the silage smell cannot be detected.

Use Modern Methods. Does every cow in your herd return you a profit? You cannot know unless you test the milk and keep a record of the yield. Use the modern method and be assured of results.

Cow Stables Should Be Comfortable. Make everything snug and comfortable about the cow stables. Cows confined day and night in drafty places use up most of their feed energy in repairing the loss of animal heat. That is wasteful.

Handling Cream For Butter. It is not necessary that cream be separated from milk but the way it is handled after being separated which determines the quality of the butter it will make. If kept until it ferments it will make poor butter.

Reliable Profits In Dairy. Dairy products fluctuate in price but probably any other product of the farm, wheat and cotton and other crops may rapidly ascend or descend the scale of prices, but the dairyman knows that his products will sell at a fair margin of profit every month in the year.

How Pasteurized Cream Keeps. Pasteurized cream keeps so well that it gives trouble in winter to churn it. To clarify this it should be well ripened for twelve to twenty hours before churning. If sour milk or cream is put in it the bacteria it contains will impregnate and ripen it if kept at 68 to 70 degrees. Sour milk or cream of choice flavor only is to be chosen, as the flavor of the butter is made or marred by the flavor of the starter, as it is called.

Potatoes For Hogs. The heaviest potato crop ever grown on Camas prairie has been harvested, but owing to high freight rates few will be sent to big markets. Several hundred carloads were dug last fall. The farmers are feeding these potatoes to the hogs. The potatoes are cooked in big cauldrons and fed with chopped grain. They are quoted at 40 and 50 cents a sack and at these prices are cheaper for feed than grain.

SILOS ARE NECESSARY.

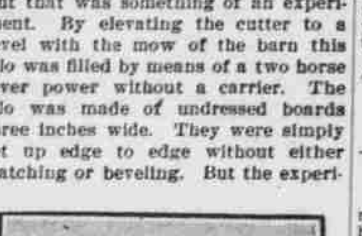
They Are a Valuable Asset in the Dairy During Winter Season.

Those interested in silos will find a list of the best silos in the following article by an expert dairyman:

The best dairyman in my neighborhood built a silo last fall, and now he says he does not see how he could do so long without one. There had been silos in the community, but to him they were not silos at all. He had seen them, but he had not seen them in use. He had seen them in use, but he had not seen them in use. He had seen them in use, but he had not seen them in use.

In the first place, one can get more feed from a given piece of land in corn than in anything else. On good land in a favorable season one may get at very little expense from ten to twenty tons of the best feed per acre planted in corn and peas or sorghum and peas.

Now, the silo is the means for saving every pound of this vast amount of feed in the best manner. A good homemade small silo may be made by any farmer who can use tools or by a common carpenter. But if a farmer wishes to make the silo a permanent improvement on his farm he should get one of the ready made small silos with patent doorway. The first silo I built I put up myself with a sixteen-year-old boy in one day. It was a small one, to be sure, only seven feet in diameter and twelve feet high. I should not again build one so small, but that was something of an experiment. By elevating the silo to a level with the roof of the barn this silo was filled by means of a two horse lever power without a carrier. The silo was made of unadorned boards three inches wide. They were simply set up edge to edge without either matching or beveling. But the experi-



STATE SILO COMPLETED.

ment was a success. The dampness and heat of the silage closed the joints so that they became air tight, and as I had but one door there was only a small quantity of spoiled feed around it and the necessary loss on top. The rest of it was as good as new. I now have in a patent silo made with staves that are tongued and grooved and beveled. Even a silo of that size will hold enough feed for three cows for four months. My present one is eight feet in diameter and eighteen feet high and for the last two winters has fed five cows four months. If I were in the regular dairy business I should provide silage for all my milking cows for six months in the year.

Washes For Scale Insects. A report of the United States Department of Agriculture says: "A good soap is effective in destroying soft bodied insects, such as plant lice and young or soft bodied larvae. As winter washes, in very strong solution they furnish one of the safest and most effective means against scale insects. The soap made of fatty oil and sold under the name of white oil soaps are often especially valuable, but variable in composition and merits. A soap made with caustic soda, as is commonly the case, and not containing more than 30 per cent of water should be demanded, the reason being that a liquid in dilution more readily spreads and more effective against insects. The soap washes are apt to be gelatinous when cold and difficult or impossible to spray except when kept at a very high temperature. For plant lice and delicate larvae, such as the pear slug, a strength obtained by dissolving half a pound of soap in a gallon of water is sufficient. Soft soap will answer as well as hard, but at least double the quantity should be taken.

How Often to Milk. Most farmers and dairymen milk their cows only twice a day, and this is right. Sometimes a fresh cow needs to have an excess of milk drawn between times in order to prevent congestion and fever, but not for a long period. Some cows again have longish teats, which waste the milk if not relieved three or four times a day, but such cows are a nuisance and should be disposed of. To milk twice a day is enough as a general rule. To milk three times does not seem to bring more milk, though some people have thought so and acted on that supposition.

The Dairy Bull. When a farmer thinks of buying a dairy bull to improve the quality of his future cows he should look to the quality of the bull, not to the cheapness of price. The character and reliability of a bull are of great value in such a transaction. One should try to buy a "future" of good quality that will run on for generations and that will help increase the good effects of every future sire that may be used.

Flushing the Separator. Flushing out the hand separator is a very deceptive business. It is a practice quite prevalent in many dairy communities to thoroughly wash the separator every morning after separating, but only flush out with warm water at night. It has been found that cream from flushed separators contains an additional number of bacteria, and a very good authority claims that it can never be transformed into first grade butter.

State Supports Good Road Cause. The state of Rhode Island has taken in about \$25,000 so far this year for automobile registrations. The money goes into the fund for repair and maintenance of roads.

Executor's Notice.

Notice is hereby given to whom it may concern, that the undersigned has this day been duly appointed by the Hon. County Court of Polk County, Oregon, Executor of the last Will and Testament of Eliza G. Emmens, deceased. All persons having claims against said estate are hereby notified to present the same duly verified, within six months from the date hereof, and all persons knowing themselves indebted to said estate are hereby notified to call and settle the same with the undersigned at once.

Dated at Dallas, Polk County, Oregon, this 24th day of January, 1919.
J. D. SMITH,
Executor of the estate of Eliza G. Emmens, deceased.
Sibley & Eakin, Attorneys.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Andrew Searth, deceased, by the County Court of the State of Oregon, for Polk County, and has qualified. All persons having claims against said estate are hereby notified to present the same duly verified, together with the proper vouchers therefor, to the undersigned executor at his residence in Dallas, in said County of Polk, within six months from the date of this notice. Dated and first published January 15, 1919.

POLLY G. SEARTH,
Executor aforesaid.
Oscar Hayter, Attorney.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Eva Peterson, deceased, by the County Court of the State of Oregon, for Polk County, and has qualified. All persons having claims against said estate are hereby notified to present the same duly verified, together with the proper vouchers therefor, to the undersigned administrator at his residence near Dallas, in said County of Polk, within six months from the date of this notice. Dated and first published January 4, 1919.

HARRY S. BUTZ,
Administrator aforesaid.
Oscar Hayter, Attorney.

Administrator's Notice.

Notice is hereby given to whom it may concern, that the undersigned has been by the Hon. County Court of Polk County, Oregon, this day duly appointed administrator of the estate of Ray Sevier, deceased. All persons having claims against said estate are hereby notified to present the same duly verified, together with the proper vouchers therefor, to the undersigned administrator at his residence near Dallas, in said County of Polk, within six months from the date of this notice. Dated at Dallas, Polk County, Oregon, this 22nd day of January, 1919.

R. M. CITY,
Administrator of the Estate of Ray Sevier, deceased.
Sibley & Eakin, Attorneys.

Order to Show Cause.

In the County Court of the State of Oregon for Polk County.
In the matter of the estate and guardianship of CLYDE W. ROBBINS, a minor. In Probate.
It appearing to this Court from the duly sworn affidavits of John R. Robbins, the guardian of the person and estate of Clyde W. Robbins, a minor, praying for an order of sale of certain real estate belonging to his said ward, viz:

An undivided 1-16 interest in and to the tract of land described as follows: Beginning at a point 10 chains West from the Southeast corner of the Donation Land Claim of R. P. Bolin, Notation No. 3125, which point is 5.67 chains East from the Southwest corner of Township 7 South, Range 6 West of the Willamette Meridian, and running thence West 28.77 chains; thence North 15 chains; thence East 28.77 chains; and thence South 15 chains to the place of beginning, containing 4.84 acres more or less, in Polk County, Oregon—that it is necessary and would be beneficial to said ward that such real estate should be sold; On motion of Oscar Hayter, Esq., attorney for said guardian.

It is hereby ORDERED that the notice of sale of said real estate, and all persons interested in the said estate, appear before this Court on Saturday, the 12th day of February, 1919, at ten o'clock a. m., at the Court room of this Court, in the County Court House in the City of Dallas in Polk County, State of Oregon, then and there to show cause why a license should not be granted for the sale of such estate.

And it is further ORDERED that a copy of this order be published at least three successive weeks before the said day of hearing, in the "Polk County Observer," a newspaper circulating in this County, printed and published at said City of Dallas.

Dated January 15, 1919.
ED. F. COAD,
County Judge.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Mattilda Peterson, deceased, by the County Court of the State of Oregon, for Polk County, and has qualified. All persons having claims against said estate are hereby notified to present the same duly verified, together with the proper vouchers therefor, to the undersigned administrator at his residence near Dallas, in said County of Polk, within six months from the date of this notice. Dated and first published January 4, 1919.

HARRY S. BUTZ,
Administrator aforesaid.
Oscar Hayter, Attorney.

Summons.

In the Circuit Court of the State of Oregon for Polk County, Department No. 2.

Nellie Mae Rueger, plaintiff, vs. John Alfred Rueger, Defendant.
To John Alfred Rueger, the above-named defendant:
You are hereby notified to appear and answer the complaint filed against you in the Name of the State of Oregon, within six weeks from the date of this publication of this summons, to wit: the 12th day of February, 1919; and if you fail to so answer, the plaintiff will apply to said Court for a decree to set aside the marriage contract now and then existing between the plaintiff and defendant, and that the plaintiff may have such other and further relief as to the Court may seem meet and equitable.

This summons, by an order of the Hon. Ed. F. Coad, County Judge of Polk County, Oregon, made at Chambersburg, Dallas, Oregon, on the 28th day of December, 1918, is served upon you by the publication thereof not only once a week for six consecutive weeks immediately prior to the 12th day of February, 1919, in the "Polk County Observer," a weekly newspaper of general circulation published in said County of Polk. The date of the first publication of this summons is December 28, 1918.

OSCAR HAYTER,
Attorney for Plaintiff.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Henri Alexander, deceased, by the County Court of the State of Oregon, for Polk County, and has qualified. All persons having claims against said estate are hereby notified to present the same duly verified, together with the proper vouchers therefor, to the undersigned administrator near McCoy in said County, within six months from the date of this notice. Dated and first published February 1, 1919.

CHARLES P. COOPER,
Administrator of the estate of Henri Alexander, deceased.
Oscar Hayter, Attorney.

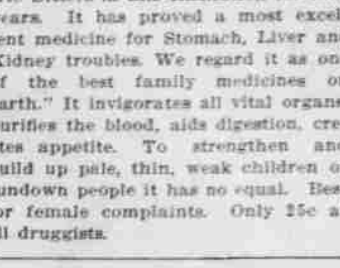
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Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1886.
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internally, and acts directly on the blood and mucous surfaces of the system. Send for testimonials free.
F. J. Cheney & Co., Toledo, O.
Sold by all druggists, 75c.
Take Hall's Family Pills for constipation.

KILL THE COUGH AND CURE THE LUNGS
WITH Dr. King's New Discovery
FOR COUGHS
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OFFER NO. 8.	OFFER NO. 15	
McClure's Magazine Twice-a-Week Observer. All For \$2.50	Review of Reviews Sunset American Twice-a-Week Observer. All For \$4.45	
OFFER NO. 9		
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THE REVIEW OF REVIEWS is the magazine which is preeminently up-to-the-minute as regards the topics of the day. Non-partisan in its attitude; international in its scope; and judicially impartial in its findings, it is not only the busy man's short-cut to keeping abreast of the times, but the culture and discernment. Each month Dr. Albert Shaw interprets current events with a clarity and accuracy that are born only of a keen insight and a rare knowledge of men and affairs, in his profusely illustrated editorial, "The Progress of the World." The Review's character sketches of notable people are intensely interesting; of world-wide fame are its concise and comprehensive reviews of the best which has appeared in other periodicals; and its clever and graphic cartoon reproductions are culled from the newspapers of the world.

McCLURE'S MAGAZINE Optimistic, enthusiastic, progressive and fearless, "McClure's" is indisputably the real exponent of the "American Idea" in the magazine world. Both in point of artistic make-up and literary merit, "McClure's" leads. Its fiction is the best—being far more expensive than that of any other popular priced magazine on the market. From cover to cover you will find a distinctive snap and sparkle to "McClure's" that will compel your interest. Its problem articles are marked not only by their timeliness, but by a straight-from-the-shoulder directness and a regard for the truth. And when "McClure's" deems it necessary to point the accusing finger at any sore spot in the social, political or financial world, it is done so, not with muck-rakish glee, but with a desire to correct. For "McClure's" is fair, square and very American. "You'll like it."

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LEAVING DALLAS.

Passenger No. 74..... 6:45 a. m.
 Passenger No. 76..... 7:30 p. m.
 Trains Nos. 4 and 74 connect at Sheridan, for North Yamhill, Forest Grove, Hillsboro and way points. Train No. 4 and 74 connect at St. Joe for Independence, Corvallis and way points.

ARRIVING DALLAS

Passenger No. 77..... 11:05 a. m.
 Passenger No. 78..... 7:55 p. m.

SALEM, FALLS CITY & WESTERN RY.

East Bound.

Trains No. 1.

Dallas..... 7:45 a. m.
 West Salem..... 8:25 a. m.

Trains No. 3.

Black Rock..... 10:45 a. m.
 Falls City..... 11:00 a. m.
 Dallas..... 11:25 a. m.
 West Salem..... 12:15 p. m.

Trains No. 5.

Dallas..... 2:15 p. m.
 West Salem..... 3:55 p. m.

Trains No. 7.

Falls City..... 4:00 p. m.
 Dallas..... 6:30 p. m.

Trains No. 9. (Sunday only.)

Dallas..... 12:00 p. m.
 West Salem..... 12:40 p. m.

Trains No. 11. (Sunday only.)

Black Rock..... 12:40 p. m.
 Falls City..... 1:30 p. m.
 Dallas..... 3:20 p. m.
 West Salem..... 4:45 p. m.

Trains No. 13.

West Salem..... 4:45 p. m.
 Dallas..... 6:45 p. m.

Train No. 3 connects at Dallas with morning trains from Portland and way points.

West Bound.

Trains No. 2.

Lv. West Salem..... 7:00 a. m.
 Ar. Falls City..... 9:45 a. m.

Lv. Falls City..... 10:15 a. m.
 Ar. Black Rock..... 10:30 a. m.

Trains No. 4.

Lv. West Salem..... 1:25 p. m.
 Ar. Dallas..... 3:05 p. m.

Trains No. 6.

Lv. West Salem..... 4:20 p. m.
 Ar. Dallas..... 5:15 p. m.

Ar. Falls City..... 5:45 p. m.

Trains No. 8. (Sunday only.)

Lv. West Salem..... 1:25 p. m.
 Ar. Falls City..... 2:10 p. m.

Lv. Falls City..... 2:40 p. m.
 Ar. Black Rock..... 3:05 p. m.

Trains No. 10. (Sunday only.)

Lv. West Salem..... 5:00 p. m.
 Ar. Dallas..... 5:40 p. m.

Dallas..... morning trains from Portland and way points.

INDEPENDENCE & MONMOUTH RY.

Dallas Division.

LEAVING DALLAS.

Passenger No. 65..... 7:30 a. m.
 Passenger No. 67..... 1:00 p. m.
 Passenger No. 71..... 8:00 p. m.

ARRIVING DALLAS

Passenger No. 68..... 6:40 a. m.
 Passenger No. 69..... 11:30 a. m.
 Passenger No. 70..... 6:25 p. m.

LEAVING INDEPENDENCE

Passenger No. 61..... 6:00 a. m.
 Passenger No. 63..... 3:00 p. m.
 Passenger No. 78..... 6:10 p. m.

ARRIVING INDEPENDENCE

Passenger No. 62..... 7:15 a. m.
 Passenger No. 66..... 4:00 p. m.
 Passenger No. 77..... 8:25 p. m.

Arlie Division.

LEAVING ARLIE.

Passenger No. 62..... 7:15 a. m.
 Passenger No. 72..... 4:05 p. m.

ARRIVING ARLIE

Passenger No. 61..... 7:00 a. m.
 Passenger No. 71..... 2:25 p. m.

LEAVING INDEPENDENCE

Passenger No. 61..... 7:00 a. m.
 Passenger No. 73..... 3:20 p. m.

ARRIVING INDEPENDENCE

Passenger No. 62..... 7:15 a. m.
 Passenger No. 72..... 4:05 p. m.

Train No. 63 leaves Dallas at 1:00 p. m. connects at Monmouth for Dallas and way points.

Train No. 73 and 72 from Arlie connect at Monmouth for Dallas and way points.