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> Use plenty of bedding under the cattle and keep a constant supply of absorbent in the

9. Do not allow the litter or bedding to also wear clean clothes. become musty.

remain in the stable.

DAIRY

The Difference in Cows.

ual mess of each individual cow since March 1st,

where the leaks are; also in connection with the

testing, shows what each cow is doing. We have

one cow that has never tested less than 4 per

Notes and Rules for Dairymen.

The Department of Agriculture for Saskat-

chewan, through the superintendent of dairying,

W. A. WIlson, is distributing some sound advice

the medium of a bulletin from which we extract

RULES FOR CREAMERY PATRONS AND OTHER

DAIRYMEN.

1. Read current dairy literature and keep

2. Observe and enforce the utmost cleanliness

about cattle, their attendants, the stable, the out-

side milking place (corral), the dairy and all

3. Persons suffering from any disease should

THE STABLE.

5. Clean and whitewash the walls at least

from the stable door. A good plan is to haul it

cows to catch the manure and liquid. This

without it it is almost impossible to keep the cows'

directly to field and spread it.

flanks and udders clean.

remain away from the cows and the milk.

some others had to be got rid of for beef.

the following:

posted on new ideas.

plainly constructed.

once a year.

EDITOR FARMER'S ADVOCATE:

11. Do not raise any dust in the stable by feeding stock or cleaning the stable immediately before milking. Dust particles contain many germs, which obtain access to the milk through the dust. The germs constitute the seed which produces strong and objectionable flavors in milk. It is important, therefore, to take every precaution to prevent dust and dirt from getting into the milk.

12, In winter the temperature of the stable should not be much above 55 degrees Fahr. or much below 40 degrees Fahr. Ventilation must not be sacrificed for temperature. Better a colder stable free from draft but well ventilated than

THE COWS.

13. Any animal suspected of disease should be promptly removed from the herd and her milk rejected from use until she has recovered or is pronounced healthy. It is advisable to have the herd tested at intervals for tuberculosis.

14. Do not permit the cows to be chased or frightened by dogs. Abuse and excitement will interfere with digestion and cause loss of food and fat in the milk.

15. Never drive the cows faster than a walk to or from the place of milking or feeding.

16. Never allow them to be excited by abuse, loud talking or unnecessary disturbance.

milk flow and it cannot be restored to its normal immediately after each cow is milked. proportions even under the best conditions.

18. Provide good pasture in summer and gauze or several thicknesses of cheese cloth. plenty of pure fresh water easy of access.

19. Grow a small acreage of peas and oats, or oats alone, as a soiling crop to be cut green and fed to the cows when the pastures commence to I have been keeping records of each individ- fail.

20. Provide succulent winter feed. A mix-1902, but have given up to my son, who is now ture of peas and oats, or oats alone, cut when the running the farm, and is continuing in the grain is in the dough, well cured, and fed same course. We are both well satisfied that it unthreshed with mangolds or sugar beets will We have run from 6 to 10 cows, and the give very satisfactory results as a winter ration time it takes is too small to estimate. It shows for dairy cows.

21. Do not changé the feed too suddenly.

22. Salt regularly. The best way is to keep the stable. cent., and from that to 5.7 per cent., that has a supply of salt always accessible.

given nearly 9,000 pounds of milk in a year, while 23. Strong flavored foods, such as turnips and cabbage, should not be fed except in limited quantities and immediately after milking. If fed beyond the capacity of the cow and before or several hours after milking the flavor of these to creamery patrons and other dairymen through flavor the milk or butter.

clipped.

25. Do not milk the cow within twenty days before calving and do not use the milk until the ninth milking afterwards.

26. The value of a cow largely depends on the treatment she receives during her young days. The stomach of the calf is weak and unfavorable for making first-class butter. should not be overloaded. Feed the mother's milk in small quantities regularly three times a day, for the first ten days. Then gradually increase the quantity and also substitute skim should use a thermometer. milk for whole milk. Make the change very gradually and when all the milk fat is removed add to the skim milk a fat substitute. Flax seed meal steeped in lukewarm water and made into Stables should be well ventilated, lighted a jelly can be recommended. Keep the heifer and drained and should be free from drafts, floors calf growing and in good health, but not too fat 98 degrees. should be tight, and the building throughout and you will have a better cow.

27. There is no place better for milking, in must have a suitable temperature. once a day and keep it at least one hundred yards lighted and well ventilated stable.

place or corral should be in a sheltered spot where 7. Provide a gutter immediately behind the the atmosphere is pure.

makes for cleanliness in the stable. In fact, and removed immediately after each milking.

30. Cows should not be allowed to remain in 51. Cool the cream from each separating becomes filthy if this is done.

31. The milker should wash and dry his hands before commencing to milk. He should

32. Milking should be done with dry hands. 10. Allow no strong smelling material to With a little practice milking may be done just as winter. easily with dry hands as with wet, and it is much cleaner.

The udder and all surrounding parts should be washed in lukewarm water or wiped with a damp sponge or cloth just before milking.

34. The first streams of milk from each teat should not go into the pail. The first drawn germs which have found lodgment in the teats, the hot sun and the road dust.

35. Milk at the same hour every day, night and morning.

cows every time and in the same order.

mental.

the whole should be rejected. of a pailful becomes dirty, do not try to remedy the day. it by straining, but reject the milk and rinse the

40. Weigh and record the milk given by each cow, and take a sample night and morning at least once in ten days for testing. In this way you will learn the value of the individual cow. Raise the heifer calves from only the best cows. Send to the butcher's block all cows that are not paying for their keep. The value of the herd can be greatly increased by so doing.

17. Do not expose them to cold rains or sleet 11. Remove the milk from the stable as soon in the spring or autumn. This will decrease the 118 possible after milking. Better to remove it

42. Strain immediately through a metal

It will pay you to have a cream separator; as all fat can then be removed from the milk. Separate it at once and at a temperature not below 95 degrees Fahr. Separator agents may tell you that their machine will separate milk cold. Clean and profitable skimming cannot be done with any separator unless the milk is

44. The cream separator should not be in the stable, but in a clean room completely isolated from the stable. Better still in a small dairy building at least one hundred yards from

45. The separator should be taken apart after each milking, all parts washed in warm water and thoroughly scalded. This applies to all makes of cream separators.

46. Where deep setting cans are used the foods can be detected in the milk and will injure milk should be set in cold water immediately the flavor of the butter. It is better not to feed after milking and left undisturbed for twentysuch foods at all. Mangolds or sugar beets four hours. The disturbing of the vessel causes make excellent food for milch cows and do not the fat globules, which are slowly rising to the surface, to be again scattered through the milk; 24. Long hair around the udder should be and, as a result, a large proportion of them never rise to the top. Separation is more efficient in a rapidly falling temperature, consequently the colder the water surrounding the milk the better the results.

> 47. Shallow pans should not be used; the loss is too great ,and the conditions are too

CARE OF CREAM.

48. Every dairyman and creamery patron

49. The accuracy of a thermometer can be fairly well tested by placing it under one's tongue, when it should register 98 degrees Fahr. The temperature of a person in good health is about

50. As mentioned in Clause 11 strong flavors are produced by the development of germ To develop, however, these germs 6. Remove the manure from the stables both summer and winter, than a nice, clean, well will multiply rapidly between 60 and 100 degrees Fahr. Between 40 and 60 their growth is 28. When milking is done outside, the milking slower, while below 40 they multiply very slowly. Therefore, when separating is completed cool the cream at once to 40 degrees Fahr. 29. The droppings should be gathered up or below, and keep it at that temperature until delivered at the creamery.

the milking corral all night. The corral soon to 40 degrees Fahr, or below before mixing with the other cream.

52. Keep the cream in a clean, cool room, in a tin vessel, surrounded with ice or cold water.

53. Do not allow the cream to freeze in

54. Cream should be sweet when delivered to the creamery. This may necessitate a triweekly or a daily delivery during hot weather.

55. Spring wagons should be used for hauling cream.

56. The gypsy canvas cover should be used milk contains little or no fat, but is loaded with on all cream wagons to protect the cream from

57. Cream haulers should commence to collect cream not later than five o'clock in the 36. The same person should milk the same morning and aim to deliver it at the creamery early in the day, thus avoiding the extreme Milk quickly, quietly, cleanly and thor- heat. A better quality of butter can be made a stable kept warm at the expense of ventilation. oughly. Unnecessary noise or delay is detri- when the cream is delivered sweet at the creamery. It will also bring a better price to the patrons. 38. If part of the milk is bloody or stringy. It is in the interests of the patrons, therefore, to have the hauler lift their cream early in the 39. If, through an accident, a pailful or part morning and deliver it at the creamery early in

58. The hauler should keep his person and wagon clean.

THE UTENSILS.

59. All milk utensils should be of metal and should have all joints smoothly soldered. Never allow them to become rough or rusty inside.

60. The covered milk pail is more sanitary than the ordinary pail.