consistency. t about the does when knows that hin, that is hs up more into butter. fat globules ne lumps of viscosity by down. Use brine.

1866

ethod. The nd decrease t a vigorous s a difficult

rmentation, to an acid er contains egar (acetic ases occurs n organism. rs is found m however ermentation ream. retard this kind of ill-flavored, all. True 70 degrees. ning cream

eriods, that reater, this ning of the are fresh it as the or churning nes imposs ble is that d comes an n this there oportion of at is there mentations is such that ature more lopment of there are None of om the cow n dirt that ler or from

is "drying y of these k we draw is likely to What is enough of e that no hall occur the use of a starter. in which to freely on millions when the duced into at a suit-

cream churning readily and a good quality of butter being produced.

A good starter should be added to the cream about ten hours before churning. A good starter may be made from skim milk. That from a fresh cow gives the best flavor. Place the skim milk in a tin or earthenware vessel and hold at a temperature of from eighty to ninety degrees until it has loppered. If the quantity thus prepared is not enough, get some clean skim milk and pasteurize it, that is heat it up to 170 degrees and hold it there for twenty minutes, cool it down to seventy-five or eighty and add it to the starter already made, and let it stand at that temperature for several hours; then cool down as low as possible. It is now ready to add to the cream. Use one quart of starter to every ten quarts of cream, let it stand twelve hours and then churn at a temperature of about sixty-five. Butter-making at this season would be much more satisfactory, and the product superior in quality if buttermakers would give more attention to the ripening of their It is the ripening more than anything else that determines the quality of the butter, bring about the right kind of fermentation in the cream before it goes into the churn and the quality of the butter will be improved, its quantity increased and the time required for churning shortened.

Treatment for Bloody and Discolored Milk hens?"

When blood as blood is drawn from the udder it generally makes its appearance toward the end of the milking, that is, it comes with the strippings

which ramify through the udder. Normally these vessels have very thin walls, and readily of such material in their food, and often the lack exude their contents—indeed, it is part of their of shellmaking material delays them in laying. function to do so, in order to supply nutrition to No better use can be made of shells than to the parts. These cases are often very difficult to collect them during summer and feed them to deal with, owing to the necessity for clean strip- fowl when they are not in a position to get other ping at each milking period precluding any possibility of rest.

again in the same animal after it has been cured, grit and keep it before them all the time. or has ceased spontaneously. In many cases cows that give bloody milk are "stale," that is, they have been too long in milk and need drying off. Any cow whose near approach to calving, or long period in milk, suggests this origin of the trouble, next calving.

milk has yet a long time to run, something must, of course, be tried to remedy the defect. The food supply, though rarely in any way responsible, should be overhauled, and such changes made in the diet as the result of the investigation suggest to be desirable.

TREATMENT.

animal taking cold in the gland. The best results a contagious nature.. tion of tonic medicine containing iron.

There is a superstition among cow-men that any winter.

able temperature, will rapidly develop and bring about into a vessel, even if eventually thrown down the house-cleaning in poultry houses and yards to

milk, or the cow will go dry.

M.R.C.V.S.—in Mark Lane Express.



Keeping Shells for Feeding.

In winter, all kinds of fowl require to be provided with grit as they cannot have free access to house or scratching shed, but always give them sand and gravel as they have in summer. This fresh air in abundance and sunshine. 'Tis grit is required to grind food in the crop and so aid digestion. For this reason, the following question by L. W., Alta., is to the point: "Are eggshells gathered in summer and kept until winter, then crushed and fed, of any value to

Eggshells are both a grit and a food. Their hardness and brittleness exercise the mechanical function of grinding food and their chemical composition furnishes the fowl with the elements The cause is weakness of the capillary vessels, required for making shells. Frequently, hens will lay softshelled eggs in winter just for the want grit. A good plan is to have an old barrel in which to throw the shells and when ready to use Further, the trouble often reappears again and them feed them with the mash or mix with other

A Seasonable Talk on Poultry.

Editor Farmer's Advocate:

Having early in July to divide my flocks one should be promptly dried off, and the bother of and two year old Barred Rocks leaving one third treatment saved. It is generally found that after of them at the The Hermitage and bringing the the usual period of rest there is no trouble at the rest down to their new home The Littlecote Poultry yards, St. Charles, I have been quite When the cow giving discolored or bloody surprised by the effect the change has wrought in the flock as regards their moult. They were moved to pastures new, fresh ground hitherto 'unscratched by the claw of hen' and at first laid well, then nearly went on strike and began to moult very freely, so by September they were well clad in a nice new coat of feathers; now they are expected to do their duty bravely all winter filling the egg basket. The Hermitage As to treatment, local bathing with cold water, contingent, however, laid more eggs in August to extensive. A square foot of waste land in these after clean stripping, is sometimes recommended and are only moulting now, both flocks having districts is as much loss to a ten or twenty acre lot as as calcluated to give tone to the weak blood- the same feed and unlimited range over plenty of vessels, but where this is practical the udder grass—in passing I may remark, as a proof of should afterwards be very carefully dried with a the healthfulness of poultry in Manitoba that soft cloth, and then gently massaged or rubbed chickens have run on The Hermitage Range for demarkation of lots in a huge city. with a little camphorated oil to prevent the about forty years without any outbreak of

A laxitive drench of Epsom or Glauber's salts Good feeding is essential when the moult is on, intending purchaser to view through his own avershould be given, and followed twice a d y with as 'tis certainly weakening. One of my old or those of a thoroughly trustworthy friend the lot one ounce or one sixteenth part, of a mixture of ladies had to be helepd to bed several nights. Which it may be proposed to acquire. If this is an four ounces each of carbonate of iron, common Wheat, barley and oats all mixed makes a nour-impossibility then one should insist upon answers to salt, and powdered aniseed and gentian. This ishing food. Mash, I do not feed during the such questions as, what is the mean altitude of the powder should be stored in a covered tin and give summer months except as a change at moulting lot, what is the greatest drop or difference in altitude in the food, or as a drench in a quart of ale or thin time when a little "venetion red" is added as occurring on the lot, what is the aspect, does the slope gruel. In cases of discolored milk it is often useful a tonic. Milk, sweet or sour, is fine for them face north, south, east or west, does the mountain to give a drench of:—Nitrate of potash, one ounce; now, helping to grow new feathers—plenty of grit rise immediately from the confines of the lot and on powdored and on the confines of the lot and on which side or sides? Another most important confines of the side of sides? powdered ginger, half ounce; Epsom salts, and some animal food if on a range where frogs sideration is the access to water and a main route of twelve ounces; ale, one quart, and follow it twice and grasshoppers do not abound. Judging from communication, either a lake or a road leading to a a day with one ounce of hyposulphate of soda, reports both east and west, this season of 1907 town or a railroad depot. Once at either a town or dissolved in a quart of warm water. The milk has been decidedly poor for both chickens and depot little or no difficulty should be experienced in from the quarters, the product of which is normal, turkeys, cold and damp weather having a bad getting to market.

Should be kept separate and the discolored and effect on them all therefore eggs and poultry. The third point to make up one's mind to is the should be kept separate, and the discolored and effect on them all, therefore eggs and poultry bloody milk received into a different vessel, will command higher prices than ever this physical impossibility of farming, with very rare

abnormal milk should be stripped on to the Personally, the writer had splendid success, be used for human consumption, or spoil the bulk, trouble but having moved near an erratic old Taken all through, then, one should make up one's but milk so distributed taints the premises and bachelor neighbor who keeps something like mind to be content with at the most a one hundred furnishes a breeding-ground for germs that cause nine viscous dogs, all with their teeth set for acre ranch and on that not more than ten should be putrefaction and decay, if not for pathegenic spring chickens, my loss has been dreadful. Mrs. under soft fruits and vegetables and the balance be Cooper of Treesbank, also, writes of fine luck, planted only with trees bearing apples, plums, cherries Generally there is no risk whatever in giving "300 young birds the finest she ever had". bloody milk or discolored milk to pigs. They The backward spring made the general farmer's appreciate it none the lass on account of its flock very late as a rule, therefore market chickens appearanse; but, in any case, it is better received are small. Now comes the time for a general hundred dollars for each acre! And in general you

the souring or ripening required to permit of the drain, than milked on the floor of the cowshed. prepare for winter and the winter layers must be In those cases where blood, as blood, comes culled out and got in good shape for filling the with the strippings, the milking should be con- egg basket later on. Mend all broken windows ducted as gently as possible; but clean stripping in the old farm coop and mend up cracks and must not be omitted because the milk is bloody, crannies. Have the nests darkened a little if or there may be worse trouble in the shape of possible and be sure they are clean with fresh mammary inflammation from retention of the filling in them. If vermin are found on house or on hens get rid of them at any cost as badly infested hens will neither lay nor thrive. A good cheap insect powder is air-slacked lime 2 parts, flower of sulphur one part and carbolic acid one part, all sifted together; a few dustings with this and a clean coop will make the flock

more comfortable and profitable.

Any hens that have not finished their moult by Nov. 20th discard from the laying pens as as no winter eggs will be forthcoming from these. As cold weather comes on keep the laying hens as hardy as possible, giving them a daily run till snow comes, when they are better in the surprising what a lot of oold they can enjoy under these conditions, with good scratching material to exercise in—at night they want to be comfortable, however, free from draughts, and a curtain in front of the roosts is useful though I have never found it necessary to use one in my houses. During the next few weeks a good supply of grit and gravel should be stored for winter—unsaleable cabbage can be put in barrels in the cellar and beets and mangels, turnips etc. can be saved for green food. Clover is splendid if a supply can be had. Cut clover steamed is much relished in winter. A farmer is wise to save a load or so of grain unthreshed to give the laying hens, providing feed and scratching material at the same time.

In conclusion I advise anyone who has artificial heating to do away with it altogether making the houses comfortable in other ways. Good banking is a help and either double windows or wooden shutters over the windows;

Littlecote, St. Charles. H. E. VIALOUX.

Horticulture and Forestry

In British Columbia Fruit Valleys.

EDITORIAL CORRESPONDENCE

The first point for a man from East of the Rockies to thoroughly grasp when considering the purchase of ranch in British Columbia is the absolutely different state of conditions prevailing in the western province. In the first place (speaking now of the three main inland valleys, the Okanagan, Arrow Lake and Kootenay) farming is essentially intensive as opposed a waste acre in a large farm or ranch in the Northwest. Every foot of space that can be utilized by the

Secondly, whilst in the prairies one quarter section is, broadly or generally speaking, as good as its neighare obtained in cases of bloody milk from treat— As a rule, to get back to my subject, the early bor, here in B. C., a first class ten or twenty acre plot ment which includes the prolonged administra- hatched pullet catches the first worm, lays the may be bounded administrator to cultivate. This first autumn egg and moults the first feather. man would dream of attempting to cultivate. This intending purchaser to view through his own eyes

exceptions, large tracts, for such rarely exist and, if they did, the nature of the crops like strawberries and such soft fruits demands a larger number than is

more general size.