# Livestock and Dairy

Facts About Care of Farmers' Feeders and Aids to Greater Milk Production,

In this number, Mr. Simpson, who is instructor in the department of dairy husbandry at Oregon Agricultural College, concludes his interesting discussion on the care of milk and cream.

BY O. G. SIMPSON.

HE MISTAKE of purchasing cheap utensils is too often made. Th

by brushing the surface of each article with hot water containing washing powder. Cloths are not as good as brushes for cleaning tinware or any utensil with sonare corners, because that will not sonare corners, because that will not square corners, because they will not sick reach into the corners and crevices. A not necessary that the washing compound form a suds. There are a num-ber of compounds put In the market by dairy supply houses that are especially compounded for washing dairy utensils. Soap is likely to form a thin film over the surface of the utensil, and demonstrate the unsatisfactory results after the injections is also a great disunless thoroughly rinsed off before of this method of immunization. scalding, may dry on. No utensil should Of the 13 immunized animals, 9 con-be considered clean until it has been tracted the disease from natural ex-

The parts may then be taken out, washed in hot water, returned to the supply can, rinsed and then scalded. separator should be washed and scalded after each run. If no hot water is available, it should be washed with cold water after one run, and after the second run thoroughly washed and scalded.

The most thorough scalding is done with live steam. Boiling water is satisfactory if the temperature can be maintained long enough to accomplish sterilization. The chief benefit derived from pouring scalding water on the utensils is that the utensil is heated and dries quickly. Bacteria do not thrive in dry surroundings, and care should be taken to keep the utensils dry when not in use. If the utensil becomes dusty before using, it should be rinsed with pure water.

### Summary.

Brush the cow and sponge off flanks and udder before milking. Use small top pail.

Do not feed strongly flavored feeds till after milking is completed.

Do not feed hay or other dusty feeds till after milking.

Remove milk from barn immediate-

ly after milking.

Cool milk to 50 degrees F., or below, as soon after milking as possible. Where cream is to be sold, separate as soon as possible after milking, and cool the cream to 50 degrees F., or below. Cool down cream before mixing with

cream already cooled.

If cans are set in tanks of cold water for cooling, stir frequently.

Keep cans in sold water till de-

Keep Cans Covered.

Separate cream, testing from 35 to 48 per cent. Such cream will keep better than thinner cream, besides more skim milk at home for feeding, and lessening the expense charges on a given unt of fat.

Keep the cream cans covered after aream is cooled.

When cream is hauled any distance to the sun, keep covered with blanket or burlap saturated in water.

Deliver cream often, not less than three times a week in summer and

twice a week in winter. In washing utensils, first rinse them

in lukewarm water or cold water, then or better, by holding over live steam. Use utensils that are well tinned, and in which has been added some good washing powder, and, last of all, sterilize by pouring boiling water over them, solder.

## Glandere Vaccine Is Not Effective

Department of Agriculture Experts Announce Results of Experiments on Seventeen Horses.

cheapest means of improving the output of the dairy is the purchase of good utensils. Cheap utensils are poorly tinned, and the seams and crevices not thoroughly flushed with solder.

Every article that comes in contact with milk or cream should be rinsed with cold or lukewarm water before being washed. The washing is to be done by brushing the surface of each article ly effective in rendering horses into an effective in rendering horses in mune from this dangerous disease in mune from this dangerous disease in mune from this dangerous disease ance whatsoever, as both vaccinated horses promptly developed an acute form of the disease from touching the Schneiderian membrane with a platiment of extensive experiments with horses and other animals. The experiments with horses and other animals they showed no resistance whatsoever, as both vaccinated horses promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses and other animals. The experiments with horses and other animals. The experiments with horses and other animals they showed no resistance whatsoever, as both vaccinated horses promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses and other animals. The experiments with horses and other animals they showed no resistance whatsoever, as both vaccinated horses promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses are promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses are promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses are promptly developed an acute form of the disease from touching the sulf of extensive experiments with horses are promptly developed an acu with glanders.

In the experiments 17 horses were good washing powder for milk utensils used. These were stabled under such posedly immunized would naturally be-may be made by mixing sal soda and conditions that vaccinated and uncontact with a good discharging case even a better opportunity would be of-of glanders. Mallein and eye tests were fered for the propagation of the disease

good.

Owners having horses which are supsaleratus (sodium bicarbonate). It is vaccinated horses could be brought into were resistant to the disease, and thus used carefully to determine the results. than if the horses were not vaccinated. Furthermore, the fact that the blood of The results obtained by these invaccinated animals can not be utilized restigations appear to be sufficient to for serum tests for two or three months

ease. As a result of this preliminary work be considered clean until it has been tracted the disease from natural exbrushed. No amount of sloshing or
whirling in the wash water will theroughly remove the thin film of milk
that adheres to the surface.

Scald Thoroughly.

Tacted the disease from natural exposure, which is a large proportion when
it is considered that all animals were
ties considered that all animals were
to depend ent upon the concentration of our efforts in eliminating infected horses and
the adoption of proper precautions
the introduction of infected ani-In washing the separator, the bowl parts and tinware may be put in the second vaccination, while the other supply can, covered with cold or lukewarm water, and allowed to drain off.

The parts may then be the four remaining immunized the adoption of proper precautions against the introduction of infected norses and the adoption of proper precautions.

The results achieved in Germany, Austria and Canada by the parts may then be the second vaccination, while the other three animals were killed August 30, The results achieved in Germany, Austria and Canada by the second vaccination of proper precautions against the introduction of infected norses and the second vaccination, while the other three animals were killed August 30, The results achieved in Germany, Austria and Canada by the second vaccination of proper precautions against the introduction of infected animals into stables free from the disease. tem examination the possibility of glanders existing in these animals which had given positive serum reaction, but which had returned to nomal.

The proved very encouraging, and no doubt if executed in the same spirit in this country a marked reduction in the cases of glanders would result.

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