

DAIRY FACTS

CHEMICALS USED TO CLEAN CANS

Chlorinated Lime Is Good in Killing Bacteria.

Chemicals may be used instead of hot water in sterilizing milk utensils, and many farmers are finding this an easy method of keeping milk cans and other dairy equipment clean and sanitary, says L. H. Burgwald, professor of dairy technology at the Ohio State university.

Chlorinated lime, which may be procured in 12-ounce cans, is commonly used for this purpose. In preparing the chemical for use in sterilizing milk utensils, one 12-ounce can of chlorinated lime is thoroughly dissolved in a gallon of water, the clear solution is syphoned off, stored in a tightly stoppered glass bottle and placed in a cool dark place. In the presence of sunlight the solution rapidly loses its strength.

After milking, Burgwald states, the utensils are immediately rinsed with cold water and then washed with hot water containing a washing powder (not a soap powder). After the milk utensils have been thoroughly washed with the hottest water possible to handle, they are then rinsed with a solution made by adding a half-glass of the chlorine solution to five gallons of water.

The chemical is effective in killing bacteria if the milk cans are clean, but if they are dirty it will do but little good. Cans returned from the milk plants or creameries may be rinsed with the chlorinated lime solution and then drained just before milking time.

Retaining Proven Bull for Future Is Prudent

Some years ago Mr. W. A. Dryden, one of the leading breeders of Shorthorn cattle in Ontario, made a comment that bears just as directly on dairy cattle improvement as on beef. "We will never make the improvement we should make," said Mr. Dryden, "until we have more proven sires. Plenty of our best sires are sold to the butcher after one or two years' use and before we really know just what their progeny will be." At that time Mr. Dryden had a couple of bulls that he had used in his own herd, loaned to neighboring breeders. He was watching their offspring and, should they prove exceptionally good, the sire was right at hand to be used to his limit for the improvement of the Shorthorn breed. "Dairymen of the Scandinavian countries have long had a system of sire exchange, that enables them to hold sires until their daughters have been tested in production. Good sires are then retained for service as long as they are active and the result has been a remarkably rapid increase in the average milk production per cow in these countries. And we, in Canada, continue with the hit-and-miss plan, or lack of plan, that has always been the rule on this continent, and every year good bulls go to the block."

Production Record of Show Bull Proved Good

The question is often asked as to whether dairy bulls which win high honors in the show ring are ever much good as sires of high producing daughters. That such bulls do get progeny which make good in milk production is being proved by one of Canada's most famous Holstein bulls.

Johanna Rag Apple Pabst, a black and white bred in the United States and bought by the Mount Victoria farms at Hudson Heights, Que., two or three years ago for the steep price of \$15,000, was never defeated at a major exhibition. Before being retired after last year's Royal Winter fair, he had won 25 grand championships and several times had been named "All-American" grand champion.

Dairy Facts

The calf can be taught to drink by allowing it to suck the fingers and gradually lowering them into the milk.

One cow often eats the profits made by another. Feed each cow according to her production. A high producing cow needs much more grain than a low producer.

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