Livestock farming and dairying,

convert them into milk, a food

cannot develop into a healthy peo-

particular, offer a splendid

### Quality Milk First | A Last Look Around **Among Market** Milk Distributors

ufacturing Specialist State College Extension Service

Bottled milk and cream, cottage cheese, buttermilk, chocolate milk, and butter are the standard dairy products which have been sold by the market milk industry for many

The importance of high quality should not be lost sight of in the industry's effort to meet increased consumption of milk and milk products. Quality factors include safety, good keeping qualities, cleanliness, proper food value and flavor is most important from the standpoint of increasing consump-

The flavor of milk, as produced by cows that are in normal condition and that are in that stage of lactation ordinarily considered as suitable for market milk production, varies greatly with the in-dividual animal. The flavor of milk depends largely upon the amount of butterfat as well as the proportion of sugar, protein, and ashe it contains.

Furthermore, the feed the cow consumed will have an important bearing on the flavor. Some milk may taste watery, even though it is fairly high in butterfat. Feed and fruity flavors may be very evident in the milk from some cows, while that from other animals similarly fed may have little or none

### Be Wise, Madam

and blankets to us to be with scientific care, preserve the lustre of your sheets and the soft fluffiness of your blankets. You'll marvel at how much longer your things will wear.

## WAYNESVILLE LAUNDRY

PHONE 205



With toy pistol ready in his right hand and wearing his cock-a-hoop air force cap, three-year-old warrior Laurie Godfrey takes a last look around the railroad station at Sydney, Australia, before being evacuated to a country town. (Central Press)

of the flavor defects. Some milk will develop rancidity or tallowi-

less much sooner than others. Causes of Off-flavors

Certain roughages such as corn, silage, alfalfa hay, clover hay, and green forage in general, when fed to cows within the five-hour period preceding milking, will cause a noticeable off-flavor in the milk. While such flavor defects are not serious in comparison with those resulting from certain weeds, such hours after bottling. Peculiarly, as onions, garlic, or bitterweed, they detract from the quality of he product. Proper management months. There seem to be two in order to reduce feed flavor defects to a minimum.

The importance of bacterial conrel in the production of raw milk Send your loveliest linens of high quality is commonly rec- become tallowy than milk of low laundered. We handle them also for many off-flavors. Num- on pasture or green feed. At erous cases of peculiar off-flavor Rutgers University during the in raw milk have been observed of some proved it to be of a fermented source. It would seem hat control of this defect and similar ones, therefore, would be closey associated with proper washing sterilizing of the milk utensils on the farm with the proper cooling of the milk.

Turnips, potatoes, beet and carot flavors also have been attrib-The organisms responsible for the hay, straw, grain, and dust. Other off-flavors that have been credited to bacterial growth are hydrogen sulphide, phenol and doughy. A aste may be caused by bacteria hat form ammonia, which in turn

Farmer Owes It To His Family To **Keep At Least One Dairy Cow** 

By Fred M. Haig, State College of producing milk and livestock.

The history of agriculture in all vivilized nations has been one of market for grain and roughages. change from grain growing with The dairy cow as an efficient conlivestock farming as a secondary verter of comparatively coarse, consideration to a system of farmrough feeds into a highly concening in which livestock play an im- trated and nutritious food for huportant part. The best dairy dismans has no equal. The cow will tricts of Europe were once grain- eat large quantities of hay, silage, growing centers, and our own eastcorn stover, grain, and grain byern states 50 years ago produced products, not edible by man, and most grain. Yet today this section is intensively in the business without which the human race

react with acid present producing soapy flavor.

By the adoption of a public suitable specifications as to the methods that must be followed in he production and handling of the aw milk, there should be little rouble from off-flavors in market nilk due to bacterial action,

One of the most troublesome flav. or defects in both raw and pasteurzed milk is the flavor called by various names, such as oil, cappy, metallic, tallowy, and oxidized. investigations have found this defect to be due to an oxidation pro-Most investigators have thought the butterfat itsef was oxidized. Copper and iron salts when present catalyze fat oxidation, thus speeding up the action and therefore playing a very important part in the occurrence of tallowy flavor.

Oxidized flavor usually does not develop in the milk until 4 to 48 oxidized flavors occur in milk most frequently during the factors responsible for this, the

Develops After Bottling

bacterial content of the milk and the feed of the cows. Milk of high bacterial content is less likely to ognized. It is known that micrro- content, and the milk from cows organisms are responsible not only fed dry feed is more likely to befor acid development in milk, but come tallowy than that from cows winter months when the cows were during the summer months. This on dry feeds, the oxidized flavor flavor was credited by some as defect was eliminated by adding bling of feed origin because of carrots to the ration. Thus, it is its similarity to malt. A study not at all unlikely that by the use of properly cured hays and certain foods containing the essential elements our troubles from tallowy flavors during the winter months can be greatly minimized.

When milk is exposed to the direct rays of the sun in plain glass bottles a burnt flavor results. The flavor is due to the action of the sun upon the non-fatty poruted to the growth of bacteria, tion of the milk. The sun rays are so effective in bringing about flavor avors get into the milk from changes in the milk that exposure for even fifteen minutes can be detected by taste. Consumers should be advised to store their milk in the absence of sunlight.

Rancidity More Common Rancidity is a defect more comnon in raw milk or cream or but ter made from same than in pasteurized products. In cases where considerable lapse time between the production of milk and its pasteurization rancidity is likely to prove troublesome to the pasteurized milk dealer. Rancidity is most troublesome during the winter months, suggestng a correlation with the feed to which the cows have access. Studies indicate it may be controlled by introduction of carrots in the

cows ration. Since rancidity develops while the milk is in storage at low temperatures it is important to pasteurize the milk as soon as possible after it is produced to retard

rancidity development. On several occasions it has been observed that raw milk coming from the farms had an undesirable medicinal flavor. Chemical sterilization was used to sterilize the farm equipment. The exact nature of the reaction is not known. It is desirable to use this method of sterilization judicially and carefully to avoid this type of off-



#### ple, either physically or mentally. The cow has rightly been called the foster mother of the world, nealth regulation that includes and millions of people now living owe their very lives to the fact that some cow supplied them with fresh milk when they were in-Most of us are stronger and healthier because we have partaken freely of this great food. Yet we find many farmers deonly has one cow to each 164 peo- can be made from milk. ple. The average for the state is the average for the United States elements that growing children greatest invention of the age, had a truer meaning

Bataan Heroines Back Home



U. S. Army Signal Corps Photo

Smilingly posing at the Presidio in San Francisco are three U. S. Army nurses after their arrival from the Pacific war zone. They saw service in besieged Bataan, taking care of from 180 to 235 patients each and working seventeen hours daily. The ordeal was so tough that the girle lost from fifteen to twenty-five pounds apiece.

one cow for each 10 people, while that contains practically all the world would herald it as the mg, "Health means wealth,"

is one cow for each 5 people. It must have, namely, proteins, min- inspectors who visit each is apparent we need many more erals, energy, and vitamins, all farm and milk distributing family cows on our farms. In fact, furnished in such an easily digest- monthly to see that the milk a farmer owes it to his family, as ed form that even the new-born duced in the most sanitary nying their children this most a good citizen, to have at least babe can drink it. If science should In this way the production nearly perfect of all foods by refusing to keep a family cow. There his children with milk and butter cheap product, which contained all for the protection of the co is one county in this state that and the other delicious goods that elements for growth and health. and the actual cure for many spe- one, old or young, will Milk is the only food in the world cific diseases, the newspapers of dends in health. And the of

Societies would be formed that no family went with Yet milk will do all these ing food. For instance, how adults drink a pint of milk day? Not so many, average consumption on furth of a pint a yet, if grown-ups drinking a pint a day feel better and actually resistance to disease

Today milk is produ clean, healthy cows, in clear equipped with modern dair Practically towns have strict dairy relative to the production Each requirement of these nances must be satisfied dairy farmer before he can This important in



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