

# Inovations in Dairy Products Have Pushed Industry Far

By M. H. MUMME  
Battalion News Writer

Gone are the days of the butter churn, old ungraded eggs, thin, aged fryers, sour homemade cheese. Gone are the days when meat was slaughtered by the rancher and sold to the neighborhood meat market with all by-products wasted.

Eggs, meat and poultry are now shipped to better paying markets. They arrive there safely, possessing all their original qualities and flavor. Butter and cheese are now more appetizing than ever before and are enjoyed by everyone.

Inventions on transportation and machinery have contributed much to our present way of living. Someone made use of better traveling conditions and communication for distribution of these dairy, poultry and livestock items. New machinery was set up and put to use, and butter and cheese were manufactured. After being prepared, these items were sold in all parts of the country within a few days.

### Story of Packing

These events, in general, tell the story of the meat packing business.

To begin with, the founders of the larger packing companies realized the importance of distributing dairy, poultry and livestock products to areas where they were needed most. This could mean better market prices for items all year.

In the Eastern part of the country, as well as in the growing state of California, farm products are very limited. There, demands for eggs, butter, cheese, poultry and meat have increased. The packers, therefore, ship these needed prod-

ucts from areas where they are more plentiful. This creates leveled market prices all over the country.

To ship farm products to different areas, without too great an expense, the larger packing companies have become nationally organized. That is, each of the larger packing firms has built its own packing plants. Larger cities are chosen for the plants' locations where livestock, farm and dairy products are sold in large amounts by the producers.

### Work Varies

The type of work varies in each plant. A packing company might have one plant solely for the fattening of poultry. There, poultry is later slaughtered and dressed. The poultry is then packed in ice and shipped to the branch offices. In some plants eggs are candled, sorted and stored for market. In the creameries butter and cheese are manufactured and packed. In meat plants the packers slaughter and butcher cattle, sheep and hogs, placing the meat in cold storage. Smoked and cured meats are processed at the meat plants and by-product shipped to various companies.

The prepared farm products and the meat are then shipped to the branch offices, where demands for the items are greatest.

At first, livestock was the only item packed by the packers for many years. Later, they packed and sold dairy and poultry products. Since these products, as well as meat, are consumed daily, the packers now sell them in large quantities at all times.

The products are perishable items and not allowed to be stored for a long time. They are kept in cold storage from the time they are manufactured or slaughtered until they reach the retailers.

Strict Government laws have made necessary a Governmental inspection of the meat while it is in the packing house. Also, the company's qualified inspector is required to inspect the meat products during the time they are in the plant.

To keep these products in the best condition, packing plants have shipped their products by refrigerated trucks and railway cars. They are shipped this way to the branch office. If a retailer's place of business is located out of the city, the products are shipped to him, also, in refrigerated railway cars and trucks. The temperature of just above freezing is maintained for all meats, dairy and poultry products shipped this way.

### Steady Market Needed

Since these farm products are perishable, the packer must find a good, steady market for them.

Some of the larger packing companies receive market quotations. These are received by telegraph and telephone from their buyers in different cities. When an increase in price in another city is high enough to pay the transportation, a packing company might ship a good number of the product there.

Many times, the market for meat may drop. A packing company might have shipped several thousand dollars worth of meat to a market where it had been selling for a higher price. In such a case,

the packer must sell the perishable item at a loss.

Despite many such hardships, the packer's other products are often shipped from one office to another. This distributing from market to market results in keen competition between packers. If it weren't for this way of marketing large quantities of poultry, eggs, butter, cheese and meat could not be sold as they are now. The market for them would be limited; the price for them, unstable. It is the keen competition which exists between packers today that has leveled the prices on products sold by them.

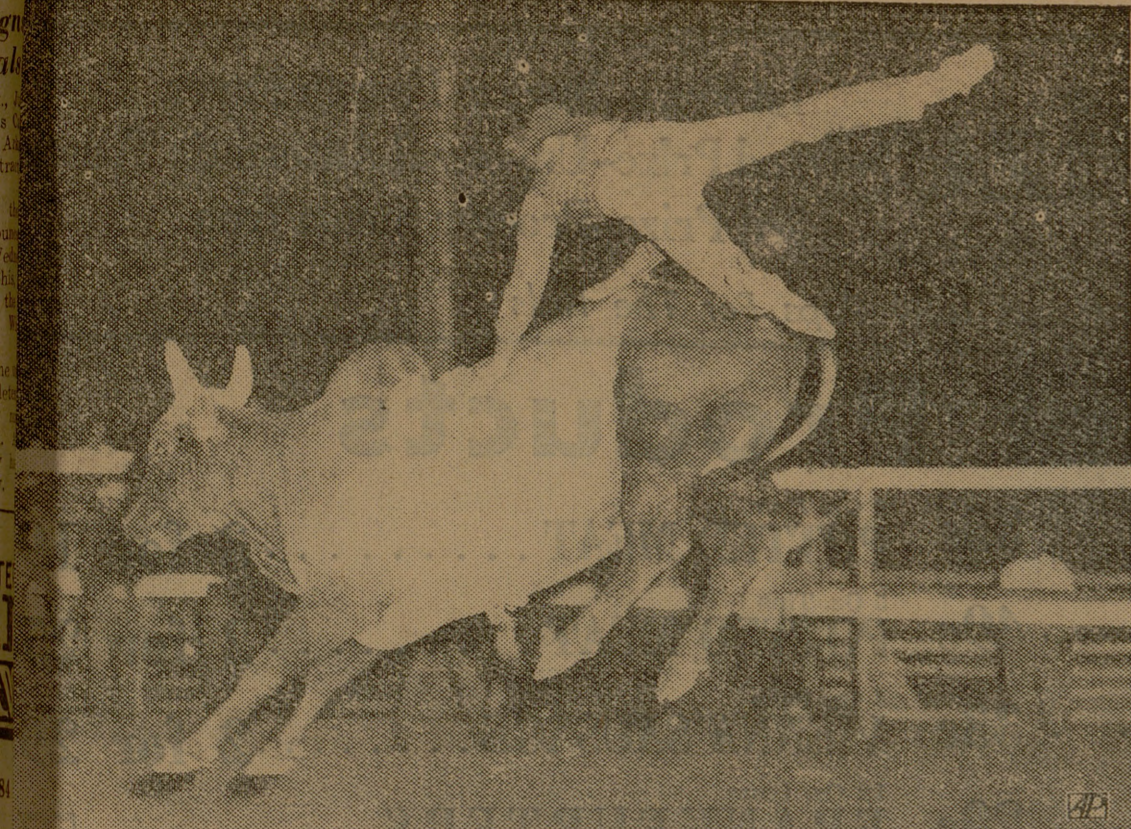
The packing companies, as a result, have progressed rapidly. They have produced plants, branch offices and sales routes, which all help in large marketing of farm products.

With all the business created by the packing companies, however, it is surprising that little profit is made. One of the larger packing firms in the country made an average of one and one-half cents per dollar of sales over a 50-year period in business.

### By-Products Are Vital

Many contend if it weren't for by-products, the packers could not operate without losing on every item they handle.

Some by-products familiar to us are hides used for leather, fat for lard, tallow for soap, hair for brushes, and bones used in the manufacture of animal feeds. These livestock by-products are sold to manufacturers, along with organs of the animals. From the latter, medicines, helpful in medical research, are produced.



**DIN' HIGH**—An unidentified Aggie from the A&M Rodeo Team pauses in air for a split second during the recent AAU rodeo. The Rodeo Team is one of the most active organizations in connection with Agriculture on the campus.

### With Spring Rains

## Bloat Poses as Threat To Livestock Industry

By GLENN WARD  
Battalion News Staff

Spring rains and new plant life spell trouble in the form of bloat to the livestock industry.

A herd of stock grazing on succulent sudan grass and clover mixtures is immune. The herds may go years without trouble before it hits. Cattle more apt to suffer from bloat than sheep.

Animals consuming a large

amount of green succulent feed are more likely to bloat than those eating less. For this reason dairy cows in milk are more subject to bloat than dry cows, or heifers, and ewes nursing lambs will bloat more frequently than other sheep.

### Cause of Bloat

Bloat results when gases produced in the paunch by fermentation are prevented from escaping. Normally, these gases escape by the way of the lungs or by belching.

It is believed belching is stimulated by a scratching action produced by coarse feed in the paunch.

Soft forages such as young sudan grass, Johnsongrass and clovers may not stimulate such action.

A second theory is that bloat is caused by a toxic substance that

paralyzes the paunch. Death usually comes from suffocation or rupture of the stomach. Bloat is also associated with cattle eating green forage they are unaccustomed to.

Even though most bloat in cattle is said to be hereditary. A disturbance may also upset animals causing bloat from eating too fast.

### Bloat Symptoms

Symptoms of bloat are labored breathing, mouth open, moaning, lack of appetite, restlessness, slobbering and puffing up of hollow in front of left hip bone. These symptoms are due to pressure on the lungs, large blood vessels and soft organs and to the absorption of gas.

Good management is the best way to prevent bloat. Some of the recommended practices include: a well balanced mixture of grasses and clovers in improved pastures, and keep salt and water available to them at all times. Others are supply ample roughages of hay or straw while cattle are in pastures, feed cattle dry forage before turning them into a well developed clover, Johnsongrass or sudan pasture, and do not leave cattle in the pasture too long until they are accustomed to it.

### How to Treat

Cattle that do develop bloat should receive immediate attention. Some of the cures for bloat include:

- Plunge an instrument known as a trocar and cannula into the paunch if case is severe and gas must escape immediately.
- A small wooden bit may be placed in the cow's mouth to avoid crow from closing jaws will help bring on belching and escape of gas.
- Sometimes a dose of two to four ounces of turpentine to cattle suffering from bloat gives relief.
- A drenching of bloated animals with 12 ounces of raw linseed oil and one and one-half pounds of Epsom salts in one gallon of water is another recommended remedy.
- Some ranchers carry bottles of mineral oil to give bloated animals. Others have made bloated animals run, but this often results in death to the animal.

Good management practices are the best preventative measure for bloat.

## The Battalion Farm & Ranch NEWS

**SELL, RENT OR TRADE.** Rates 3c a word per insertion with a minimum. Space rate in classified ads, 6c per column-inch. Send classified to STUDENT ACTIVITIES (C.E. All ads must be received in our Activities office by 10 a.m. on the before publication.

### FOR SALE

SE FOR SALE—By owner, three bedrooms in College Hills, Woodland, 1100 hours, appointment only. Phone 251.

A. B. Dick Mimeograph 91 Duplicator. Used bids will be received in the Office of the Auditor, College Administration Building, until 10:00 AM, Monday, June 8, 1953. The right is reserved to edit any and all bids and to waive any and all technicalities. Address Auditor, A. and M. College of Texas, College Station, Texas, for further information.

1949 Chevrolet Station Wagon. Sealed bids will be received in the Office of the Auditor, College Administration Building, until 2:00 PM, Monday, June 8, 1953. The right is reserved to reject any and all bids and to waive any and all technicalities. Address Auditor, A. and M. College of Texas, College Station, Texas, for further information.

EE bedroom frame house, large lot, loan. 4-8176.

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Call 4-9789 or 4-5984

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### HELP WANTED

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### Directory of Business Services

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### SPECIAL NOTICE

MUL ROSS LODGE NO. 1300 A.F. & A.M.

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Al B. Nelson, W.M. N. M. McGinnis, Sec.

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Size 176 Florida JUICE ORANGES . . . . .	doz. 43c
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Honor or Birdseye Green Peas . . . 2 pkgs.	39c
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Morton's Individual CHICKEN POT PIES . . . . .	each 27c
12 Oz. Donna Dean or Snow Crop STRAWBERRIES . . . . .	3 pkgs. \$1.00
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Junket Powders for Making ICE CREAM . . . . .	pkg. 11c
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