



LANCASTER COUNTY FARMERS
Member F.D.I.C.

If you don't have a Christmas Club at County Farmers... what are you waiting for?

Freeze Branding Tried In Maryland

"Nope, we don't need a fire... we're goin' to freeze-brand these critters."

The old phrase about heating the branding irons may be on the way out; if this new method catches on, the foreman may have to tell the cowboys to "get the branding irons cooled down."

A Livestock Management class at the University of Maryland tried an experiment in February of this year and the results look promising as a method of marking cattle permanently and painlessly.

"In Maryland," Dr. James Ferguson, Extension livestock specialist at the University, hurries to add, "The system will probably be used only for individual animal identification. Freeze brands are not likely to be used — at least not just in fact, he emphasizes, the marks are not yet recognized as legal brands. The technique was developed at Washington State University by Dr. Keith Farrell, U.S. Department of Agriculture veterinarian. Unlike the results of hot iron

branding, the new method does not produce a hairless scar. The hair is clipped extremely short for the branding and when it grows long again it is completely white. The method has no value on naturally white cattle.

In the Maryland experiment, Dr. Ferguson said, the Maryland Beef Cattle Improvement Association supplied the materials and the University's Agricultural Engineering Department made a set of aluminum branding "irons." The nine inch high numerals have 1/2 inch square faces and have a stainless steel rod screwed in to them. Wooden handles protect the operator's hands from the extreme cold.

Dr. Emory C. Leffel, professor of Animal Science and his livestock management students used about four to six inches of methanol in the bottom of a styrofoam picnic cooler to lower the temperature of the "irons." Fifteen pounds of "dry ice" in the alcohol kept the liquid cold for nearly four hours.

Students in the class held the animals in a standing position and clipped the hair at the site of the brand. A standard large animal clipper will

not clip the hair close enough, no pain to the branded animal, Dr. Ferguson says.

Warm alcohol was used to wet the animal's skin, and the branding iron — chilled to approximately 180 degrees below freezing in the alcohol and dry ice — was held against the skin for about 25 seconds. There is no smoke from searing hair or skin as with hot iron branding, and apparently short, Dr. Ferguson says.

Boost Yields NEXT YEAR!

Order Your PIONEER SEED Now

Order now and get first call on the Pioneer varieties that will do the best job for you next year. Pioneer offers you:

- (1) A New Generation of hybrid corn varieties—bred to fit your specific needs.
- (2) Hybrid sorghums for high grain and forage yields—extra bushels of grain and more tons of forage.
- (3) Alfalfas bred for the job... whether it's hay, pasture or plowdown.

Check what you'll need now—then order when your Pioneer salesman calls. An order placed now gives you first call on the seed you need next spring.



Your Local Pioneer Salesman

Pick a John Deere 1020 or 2020 to work integral tools, get this bonus...



Draft-link sensing — with selective response-control to match job and conditions

Integral tools are pulled by the lower links, so they "feel" the changes in soil conditions first and fully. That's why "1020" and "2020" Tractors hydraulically "sense" load changes through the draft links. But not all conditions call for the same sensing response, so John Deere provides three response selections. LOAD—automatically adjusts depth to maintain constant draft load. LOAD-DEPTH—automatically provides weight transfer as needed. And DEPTH—maintains tool depth you set through thick and thin. Be our guest for an on-your-farm test of "1020" or "2020" selective response. Credit? Of course.

Now, you can buy this John Deere Tractor (or any other size, any tractor-implement team) with a small percentage down—

No Finance Charge until March 1, 1968



Shotzberger's
Elm 665-2141

Wenger Implement Co. Buck 284-4467	Landis Bros. Inc. Lancaster 393-3906
A. B. C. Groff, Inc. New Holland 354-8001	M. S. Yearsley & Sons West Chester 609-2990

FEED CATTLE FASTER AND MORE EFFICIENTLY THAN EVER BEFORE!



NOW! Feed up to 200' of bunk per drive... Feed multiple lots... Blend complete rations with...

VAN DALE'S NEW AUTOMATIC MULTI-FEEDERS

From the pioneer in silo unloading, come two low-power, mammoth capacity, bunk feeders for in-the-barn or feedlot feeding. You can feed from more than one silo (at the same time). Feed out to from one to four-or-more lots. Feed any material with big 9" or 12" true, bearing-suspended augers, (no metal-to-metal contact.) Feed entire bunk at one time; eliminate crowding.

High capacity and dependability... call us and we'll come out to see you, at your convenience.

CALEB M. WENGER

R. D. 1, Drumore Center 548-2116 QUARRYVILLE, PA.