Proper identification at birth and legible tattoos are essential to maintaining accurate parentage and production records of Hereford cattle. A readable tattoo is also a requirement for registering an animal with the American Hereford Association (AHA). Hereford breeders were the first to adopt the ear tattoo as a requirement for registry.

Tattooing can be done any time before registering, although it's best done when the animals are young. Twig Marston, director of the Northeast Extension and Research Center and professor of ruminant nutrition for the University of Nebraska, recommends tattooing calves before 3 months of age. "The younger you tattoo a calf, the more legible the tattoo will be," says Twig. "The tattoo will grow as the calf gets older, making it easier to read."

Twig says successful tattooing is a result of proper technique and the completion of a series of steps. Here are some steps that can be taken to help ensure a legible tattoo.

Proper equipment
Success starts with having the necessary tattooing equipment. Before beginning, a breeder should have a complete set of number and letter characters, if used. Sets of tattoo characters have one of each number (0-9) or letter (A-Z), so you may have to purchase more than one set. Tattoo equipment can be purchased from a livestock supply dealer.

Remember that a registered tattoo can have a maximum of eight characters (digits and/or letters) applied in a straight line. There are a variety of different types of tattoo pliers, which use removable digits, on the market. Some pliers have revolving heads and will hold two different tattoos at once.

You'll need a rag or a sponge and some rubbing alcohol to clean out the ear before you apply the tattoo. Tattoo ink, green or black, is critical in getting a readable and permanent tattoo. With the aid of a toothbrush, the ink can be worked into a fresh tattoo easily. A good working chute is also critical to a legible tattoo. The chute should restrain the animal from making quick head movements. "The only stress on the animal during the tattooing process comes from poor restraint," Twig says. "For a readable tattoo to happen, the animal must hold still and be kept from moving its head."

Ready to begin
Once you have the calf in the working chute, check your records and establish the tattoo that will identify the calf. Place the corresponding digits in your pliers. Twig suggests checking the tattoo on something like a piece of cardboard or an old feed sack. Otherwise, you run the risk of incorrectly tattooing the calf.

Check to make sure that all of your digits make an even perforation. One common mistake breeders make is not throwing away dull, broken or hair-matted characters. Such digits do not allow for deep penetration into the ear tissue.

Cleaning the ear and ridding it of all wax and dirt is the next step. Twig says the key to a good tattoo is a clean ear. "To really do a good job, you need to clean out that ear with alcohol," Twig stresses. "You can't get a tattoo to take with all the wax and dirt that is normally in the ear."

The ear should be dry before moving on to the next step—applying ink. AHA recommends tattooing the animal in the upper two-thirds of the lobe, reserving the lower third of the right ear lobe for the Bangs tattoo. Tattoos in either ear can’t exceed eight characters in length.

The Association also strongly advises that breeders place the tattoo in both ears to enhance the chances that a complete tattoo identity can be established. "Make sure that the tattoo is stamped in the center of the ear, close to the head," says John Meents, AHA upper Midwest field representative. "Not the tip or the end of the ear."

Don’t run the risk of having an illegible tattoo by using an improper technique.

by Jami Gillig

Establish the tattoo that will identify the calf and place the corresponding digits in your pliers.

Check the tattoo on something like a piece of cardboard or an old feed sack.

Cleaning the ear and ridding it of all wax and dirt is key to a good tattoo.

Tattoos should be placed in the upper two-thirds of the lobe and where the skin is lightest in color and free from hair. Be sure to avoid ribs or cords in the ear.
Tattoos should be placed where the skin is thickest and free from hair. Be sure to avoid ribs or cords in the ear, as placing the tattoo in one of these ribs means a poor tattoo as well as an excessive flow of blood.

Before tattooing the animal, rub the ink in with a toothbrush or your thumb. By doing this, the ink will more likely be carried into the new tattoo.

When ready to proceed, place the ear between the jaws of the pliers. It’s important when clamping the pliers to use the right amount of pressure. “Close the jaws quickly and firmly and release quickly to avoid tearing the ear,” says Twig. “Use enough pressure that it pierces the skin, but don’t go so deeply that it bleeds profusely. The only way to stop an ear from bleeding after the use of too much pressure is to reapply ink, Twig points out. Put on more ink and use that toothbrush to get the ink down in those perforations. The ink helps the blood to coagulate. Make sure that the ink is worked thoroughly into the tattoo to ensure a legible and permanent tattoo mark. When the tattooing process is finished, clean the character to remove all hair, dirt and blood. This is also the time when you should throw away and get replacements for the ones that are dull.

When to tattoo

There are advantages and disadvantages to tattooing at birth or the alternative, waiting to tattoo calves as a group.

Max Stotz, Star Lake Cattle Ranch, Skiatook, Okla., has tried both, but prefers to tattoo at birth. “We find we have less human errors and don’t miss calves if we tattoo at birth,” says Max. “You get replacements for the ones that are dull.

Mark Stotz, Star Lake Cattle Ranch, Alto, Mich., says using EID tags as a service to producers are using to represent the same numbering order.”

Additional benefits come when producers EID cattle before shipping them to a feedlot.

EID on the farm

In 2008 the AHA implemented an electronic tagging system for all national shows, which has made cattle processing more efficient. In addition, a number of producers use electronic identification (EID) tags to manage their entire cow herds.

Star Lake Cattle Ranch started using EID five years ago.

“In my personal opinion, EID provides the traceability and source verification that our industry must have to keep open key foreign markets,” says Max Stotz, Star Lake Cattle Ranch. Utilizing EID technology has provided its share of headaches in the form of information flow between software and glitches at the chute. “We’ve had to run calves back through the chute when their weights were not captured by the system,” Max says. “In our current situation, we don’t see a huge advantage, but investing in a laptop for chuteside use would sure help.”

Bob and Jami Goble of Ridgeview Farm, Alto, Mich., began using the EID program long before it was implemented by the AHA. “We use the system as a time saver at the chute. All the cattle are in our computer system by ear tag, tattoo, name and EID,” Jami says. “If a cow loses her tag or comes without a tattoo, we can scan her EID and not only know who she is but see her breeding info, calving info, as well as vaccinations and drugs she has been given. We have a lot less ‘paper’ work at the chutes; it is all on the laptop.”

Additional benefits come when producers EID cattle before shipping them to a feedlot.

Danny Herrmann, Ford County Feed Yard Inc., Ford, Kan., says using EID tags as a service to producers. “There certainly are opportunities with EID, it just takes coordination and communication,” he explains. “Producers that put the tags in on the farm are able to connect information we collect back to what they have on an animal.”

Utilizing EID tags on the farm or ranch allows breeders to electronically capture weights and input health and management practices and tie it to an animal ID number.

This data may include weights or animal health information. Danny sees even greater advantages for producers using EID tags at slaughter. “It’d say the carcass data is of the greatest value to a producer,” says Danny. “Producers just need to utilize the technology.”

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