Preparation for Calving Season
by Pat White, DVM

Calving season is the time when all the preparation made during the past months to years comes to fruition. Results of the decisions made months before become evident; the get of a new sire, the mothering ability of that nice set of first calf ½ sisters saved as replacements from the last sire. Results of more recent decisions also can become evident: such as thin, poor-doing cows weak and disinterested in their calves because you couldn’t justify the cost of better hay than what got rained on. There are a lot of events and influences that may not seem as important as they are until things start to go wrong. Proper preparation for the calving season begins long before that first calf hits the ground. The necessary preparations can be broken down into two basic types: the long term breeding and feeding decisions and the shorter term actual calving season decisions.

Proper nutrition is one of the benchmarks of proper preparation for calving season. It is imperative that cows receive adequate protein, energy, vitamins and minerals that both maintain the cow and build the calf and colostrum to feed that calf. Without adequate nutrients, calves can be born weak and thin, with inadequate fat reserves to maintain body heat.

Some producers start preparing for the calving season by feeding their cows in late afternoon or early evening during the last few weeks of pregnancy. This aids in synchronizing actual calving times; as many as 75% of the pregnant cows will calve between 7:00AM and 7:00PM when fed in this manner. Daylight calving is generally preferred tonighttime calving; a time when more attention can be paid to the cattle and their behavior.

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When the actual delivery date arrives, it is important to have supplies needed to tend to both cow and calf easily accessible and in some semblance of order. Some items to include might be:

- A list of breeding dates, with expected calving dates calculated. Calves can easily arrive 10 days early or late.
- If use is made of calving pens, make sure they are cleaned, dry and ready for numbers.
- Have feed and water easily accessible, with appropriate containers handy.
- Have some form of restraint easily available.
- Take inventory and restock calving necessities.
  1. Obstetrical (OB) chains and two handles. Nylon calving ropes are also adequate and they can be thrown in the washing machine but stainless steel or chrome chains are easier and can be sanitized or even sterilized. Baling twine is a very poor third choice, it is not clean nor can it be cleaned.
  2. OB sleeves and lubricant. Lubrication is essential when assisting a cow in labor. Mild non-detergent soap like Castile is acceptable, as is mineral oil. Veterinary lubricants are available; J-lube is a powdered lubricant that is excellent. It is merely wetted with water. Do not use liquid dishwashing detergent. Detergents strip the mucous membranes of their natural protective layer and these are extremely irritating and eventually drying. (Just look at so-called “dish-pan hands.”)
  3. Non-irritating antiseptic such as Nolvasan or Betadine solution (available from your veterinarian). If you get the “scrub” as opposed to the solution, remember that it will have detergent properties and should be treated with the same respect as dishwashing detergent, i.e. never used as a vaginal lubricant and completely rinsed off. Dial soap also makes a very good cleansing agent for the vulva and your arms. It is not as powerful as Nolvasan or Betadine however.
  4. Needles and syringes: recommended to have 16g, (gauge), 18g ½ inch, 18g 1 inch, 18g 1½ inch needles, 3, 6, 12 and 20 cc syringes.
  5. Ear tags, tagging tools, tattoo kit with disinfectant. I tattoo our calves at birth, using a Ketchum small animal tattoo kit. It makes a very tight and easily read tattoo when used correctly. It is also stainless steel, which makes for less broken tattoo letters and numbers. It will hold up to six digits and is small enough to use in a newborn calf ear. It would be much more difficult to use in an older calf. Sometimes I think the cows lick the ink out of the ear a little too enthusiastically and that may be the reason the occasional tattoo doesn’t turn out well. I check all tattoos at weaning, and occasionally have to redo one. We also apply a radio frequency ID tag to the opposite ear. These are small and unobtrusive. We find it is easier to restrain a newborn calf for these procedures, particularly since we are processing them at birth anyway.
  6. Weight tape, hoof tape or weigh sling and scale. We weigh all our calves at birth (within 24 hours) and use the calf sling and scale available through Nasco. You can pick them up and stand on a bathroom scale if that is what you have. Hoof tapes are also reasonably accurate to estimate calf weight. Please note weight or hoof tapes may not be used for AHCA’s Performance Program.
  7. Injectable Vitamins A, D and E, injectable Vitamin E/selenium combination. Depending on the quality of your feed and the time of year, you may or may not need to give fat soluble vitamins to your newborn calves. Vitamin E and selenium are usually only given in areas of the country with inadequate soil selenium; check with your veterinarian or extension agent on the need to give it in your area.
  8. Strong 7% Iodine to dip the naval of the calf.
  9. Dental floss or strong thread to tie off a bleeding umbilical cord on the calf if necessary. It is rarely necessary to tie off the cord but you should still have a package of dental floss on hand.
  10. Vaccinations for newborn calves, if any. Intranasal vaccination for IBR and PI3 can be given to newborns, as can oral scours vaccine for rotavirus.
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11. Adequate supply of good quality colostrum. If you can bank colostrum from some of your heavier milking cows, do it. Keep only the first milking for freezing, as antibody levels in colostrum start to drop after every milking. Freeze in 12-16 ounce or ½ liter plastic bottles such as those bottled water comes in. Bottles this size thaw reasonably fast in a hot water bath. Do not microwave colostrum to thaw it. Cooking will denature the proteins needed by the calf in the uncooked state. A hot water bath may take ½ to 1 hour to thaw pint bottles. Remember that there are several diseases you can infect your calves with when feeding colostrum. Johne’s disease is easily spread through infected milk and it is imperative that you trust the source of your colostrum stores. It is advisable to use colostrum from your own cattle, assuming of course, that they are free of Johne’s and other diseases. There are absolutely excellent commercial colostrums available now, that offer guaranteed high quality immuno-globulins. Alta Genetics out of Wisconsin offers some highly recommended dried colostrum for reconstitution, free of Johne’s disease. Purchasing colostrum of this quality is preferable to using colostrum from questionable sources. Their Calf’s Choice Total Gold delivers 120 grams of immunoglobulins in 1½ liters total volume. (2 packages of powdered colostrum in 750 ml water each.) If you compare this to many over the counter colostrum substitutes, it is obvious there is very little comparison. Alta has an excellent website explaining the value of high quality dried colostrum.

12. Esophageal tube feeder. If you don’t know how to tube a calf, find someone who does and learn. I prefer the Fluid Feeder available through Nasco. The stainless steel probe is just a little smaller than the usual plastic probe and goes down that much easier. It also does not have to be hung up on a nail or held up by someone else. It is truly a one person operation, although made easier with another person to control the rear end of the calf. Tube feeding of colostrum to a calf that has not nursed can be life saving. The technique is also useful for treating dehydration in calves, particularly from scours.

13. A good calving video or book. Nasco sells an excellent book titled *Calving, the Cow and Care of the Calf*. It is loaded with photos and has excellent descriptions of calving difficulties and how to correct them.

14. Pour-on Ivomec or Pour-on Eprinex. I use this at label dosages on any newborns delivered during fly season. I wait until all other processing of the calves is completed and the calf and cow are ready to be released onto pasture. The pour-on formulations seem to have an effect on fly larva for up to 3 weeks. Flies may leave eggs but they don’t develop into maggots. You still have to keep an eye on manure buildup on the butt and should check out any calf with signs of skin irritation such as constant flicking of the tail or chewing the same spot on the skin. Calves can still develop skin infections from matted wet hair or manure tight against the skin. While the pour-on products may prevent maggots, they do not prevent all serious skin conditions.

Once you have all your supplies in order, you are ready for almost any complication that might arise. Hopefully you’ll have little need for most of them.