

Some feeding advice on the agricultural front

It is generally accepted that adequate supervision at calving has a significant impact on reducing calf mortality.

Adequate supervision has been of increasing importance with the higher price of live calves at sale time.

On most ranching operations, supervision of the first calf heifers will be best accomplished in daylight hours and the poorest observation takes place in the middle of the night.

The easiest and most practical method of inhibiting nighttime calving at present is by feeding cows at night; the physiological mechanism is unknown, but some hormonal effect may be involved.

Rumen motility studies indicate the frequency of rumen contractions falls a few hours before parturition. Intraruminal pressure begins to fall in the last 2 weeks of gestation, with a more rapid decline during calving.

It has been suggested that night feeding causes intraruminal pressures to rise at night and decline in the daytime.

In a Canadian study of 104 Hereford cows 38.4% of a group fed at 8:00 am and again at 3:00 pm delivered calves during the day, 79.6% of a group fed at 11:00 am and 9:00 pm. A British study utilizing 162 cattle on 4 farms compared the percentages of calves born from 5:00 am to 10:00 pm to cows fed at different times. When cattle were fed at 9:00 am, 57% of the calves were born during the day, versus 79% with feeding at 10:00 pm. In field trials by cattlemen utilizing night feeding when 35 cows and heifers were fed once daily between 5:00 pm and 7:00 pm, 74.5% of the calves were born between 5:00 am and 5:00 pm. In the most convincing study to date, 1331 cows on 15 farms in Iowa were fed once daily at dusk, 85% of the calves were born between 6:00 am and 6:00 pm.

On many large ranches,



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it is physically impossible to feed all of the cows after 5:00 pm.

In those instances, the ranch manager should

plan to feed the mature cows earlier in the day, then feed the first calf heifers at dusk.

The heifers, of course, are the group of females that are of greatest need of observation during the calving season.

Various means have been employed to effectively reduce animal loss at calving time. Skilled personnel should be available to render obstetric assistance and neonatal care to maximize percentage calf crop weaned in the cattle operation.

Currently, evening feeding of cattle seems to be the most effective method of scheduling parturition so assistance can be available during daylight hours.

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