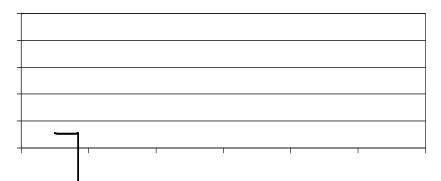
Management in Late Gestation is



Cows calving at BCS \leq 4 that conceive become pregnant later in the breeding season (Table 1) and calve later in the next calving season. Late calving cows are more likely to fail to conceive during the breeding season. Calves born late in the calving season will be approximately 35 to 40 lbs. lighter at weaning for every 21-day delay in calving.

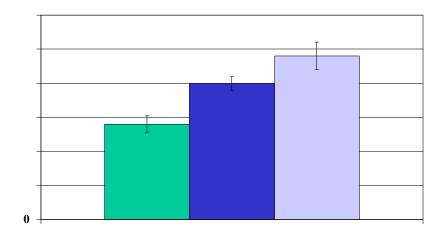
Table 1. Effect of Body Condition Score at Calving on Cumulative Pregnancy Rates

			Day of	Day of the Breeding Season		
		BCS	20 d	40 d	60 d	
Mature Cows (Richards et	al., 1986)		Cum	Cumulative % Pregnant		
		4	41	67	84	
		5	51	79	91	
First Calf heifers (Spitzer	st Calf heifers (Spitzer et al., 1995)			Cumulative % Pregnant		
		4	27	43	56	
		5	35	65	80	
		6	47	90	96	

First calf heifers are even more sensitive to the effects of BCS at calving on pregnancy rates. Dramatic decreases of 40 % to 50 % (Figure 2) occur as heifers drop from BCS 6 to BCS 4. In contrast to mature cows, heifers exhibit a significant decrease of approximately 16 % in pregnancy rate between BCS 6 and BCS 5. Therefore, the optimum BCS at calving is 6 or 7 in heifers.

Poorly fed heifers have more stillborn calves, weaker calves, lower calf survival, and poor colostrum. Heifer need to gain 2 to 2.5 lbs per day to continue to grow while the fetus is also growing.

Figure 2. Effect of Body Condition Score at Calving on Subsequent Pregnancy Rate in First Calf Heifers



Management during late gestation

Cow energy requirements increase by 25% compared to mid-gestation, and protein needs increase by 10%. Demands for calcium and phosphorus increase because of fetal growth. In addition, high levels of copper, selenium, zinc as well as vitamin A & D are needed for proper fetal body and immune system development.

Cows will need to gain at least 100 lbs during late gestation to accommodate this tissue growth without losing body condition. Without fail, cows should be body condition scored at least 90 days before calving. Cows that are thin (BCS 4) or young cows should be fed separately from the mature cow herd.

The effects of severe winter weather should not be ignored. Extended (more than 5 days) of cold, windy or wet weather can increase cow energy requirements by 10 to 20%. In most cases, cows will increase hay consumption if hay quality is good. Otherwise, additional supplements should be fed during extreme weather. Normal feeding can resume when the weather breaks.