

Calculations

You will need to use this information to help you complete your Beef Record for each cow you have in your herd. Your parents, Beef project leader, and Agricultural Extension Agent can help you figure adjusted weights, frame scores and conformation scores.

Adjusted Weaning Weight

Weigh calves when they are between 160 and 250 days of age. Use the following calculations to determine adjusted 205-d weights and ratios.

$$\text{Average Daily Gain (ADG)} = \frac{\text{Weaning Weight} - \text{Birth Weight}}{\text{Age in Days}}$$

$$\text{Adjusted 205-d Weight} = (\text{Actual ADG} \times 205) + \text{Birth Weight} + \text{Adjustment Factor (age of dam)}$$

Adjusted 365-d Weight

Weigh yearlings when they are between 330 and 400 days of age. Use the following calculations to determine adjusted 365-d weight and ratios.

$$\text{Actual Post-weaning ADG} = \frac{\text{Actual Yearling Weight} - \text{Actual Weaning Weight}}{\text{Number of Days Between Weights}}$$

$$\text{Adjusted 365-d Weight} = (\text{Actual Post-weaning ADG} \times 160) + \text{Adjusted 205-d Weaning Weight}$$

Weight Ratios

$$\frac{\text{Adjusted 205-d or 365-d Weight of Individual Calf}}{\text{Group's Averaged Adjusted 205-d or 365-d Weight*}} \times 100$$

* within sex group managed alike

Age of Dam Weaning Weight Adjustments for Various Breeds					
Angus			Herford		
Age of Dam	Male	Female	Age of Dam	Both Sexes	
2 years	45	37	2 years	52	
3 years	21	18	3 years	35	
4 years	9	7	4 years	23	
5-10 years	0	0	5-10 years	9	
11 years and over	9	9	11 years and over	0	
Polled Hereford			Charlois		
Age of Dam	Male	Female	Age of Dam	Male	Female
2 years	60	54	2 years	45	37
3 years	40	36	3 years	21	18
4 years	20	18	4 years	9	7
5-10 years	0	0	5-10 years	0	0
11 years and over	21	18	11 years and over	9	9
Simmental			Age of Dam		
Age of Dam	Male	Female	Age Range	Age of Dam	
2 years	50	40	through 32 months	2 years	
3 years	14	17	33 through 44 months	3 years	
4 years and over	0	0	45 through 65 months	4 years	