

Beef Heifers

Typical Feed Combinations:

A: Free Choice Low Quality
Forage and 5 to 6 pounds grain

B: Free Choice High Quality
Forage and 2 to 4 pounds grain



Mineral Requirements:

- Minerals should be fed free choice on a year-round basis
- Minerals should be fed loose to assure adequate intake
- Do not exceed 2 to 1 Ca : P or go below a 1 to 1 Ca : P ratio
- Phosphorus is important for reproductive performance

Examples of mineral mixes for Mature Cows

For feeding with rations containing mostly hay or pasture

Item	Amount (lb.)	Calcium (%)	Phosphorus (%)
Dicalcium Phosphate	100	23	18.5
Trace Mineralized Salt	100	-	-
Total	200	11.5	9.25

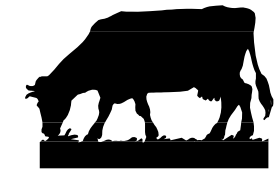
For feeding with corn silage, potatoes or other ration low in calcium

Item	Amount (lb.)	Calcium (%)	Phosphorus (%)
Feed Grade Limestone	100	38	
Dicalcium Phosphate	100	23	18.5
Trace Mineralized Salt	100	-	-
Total	300	20.3	6.2

Feeding Beef Cows

Nutrition affects:

- Percent calf crop weaned
- Weight of calves at weaning
- Cow costs
- Short Breeding Season
- High Conception Rates



	Percent
Dry Matter Intake (% Body Weight)	2.5 - 2.0
TDN	62
Protein	8 - 10
Calcium	.22 - .36
Phosphorus	.18 - .20

EARLY LACTATION

Highest Nutrient Requirement

Typical Feed Combinations:

- A: High Quality Hay - Free Choice
- B: 4 - 5 lbs. Grain plus Good Quality Hay - Free Choice
- C: 30 lbs. Potatoes plus Good Quality Hay - Free Choice
- D: 60 lbs. Corn Silage plus 1 lb. Soybean Meal (or equivalent NPN source)
- E. High Quality Pasture

EARLY GESTATION AND LATE LACTATION

Typical Feed Combinations:

- A: Good Quality Pasture
- B: Diverted Acres and Crop Residues

NOTE: If increased growth rate is desired for calves consider creep feeding.



MIDDLE THIRD OF GESTATION

Important to maintain body condition

Typical Feed Combinations:

- A: Free Choice Hay
- B: 45 lbs. Corn Silage


LAST THIRD GESTATION

70% of fetal growth occurs during this period. Cows should gain between 0.5 and 1.0 lbs. per day

Typical Feed Combinations:

- A: Good Quality Hay - Free Choice
- B: 3 lbs. Barley and Low Quality Hay - Free Choice
- C: 30 lbs. Potatoes and Low Quality Hay - Free Choice
- D: 50 lbs. Corn Silage

Beef Cow Nutrient Requirements

 Early Lactation	Early Gestation & Late Lactation	Middle Third Gestation	Last Third Gestation	
Dry Matter Intake (lbs.)	21.6 to 22.3	20.5	19.5	21.0
TDN (%)	56.0 to 65.2	56.0	48.8	53.2
Total Protein (%)	9.4 to 11.9	8.0	7.0	7.8
Calcium (%)	0.27 to 0.38	0.27	0.19	0.26
Phosphorus (%)	0.22 to 0.27	0.22	0.19	0.21