

ANR-0148

Forage Testing for Beef Cattle

ANR-0148-Table 2.

Table 2. Nutrient Requirements of Beef Cattle.								
Body Weight (lb)	Daily Gain (lb)	Dry Matter Intake (lb)	Crude Protein		TDN		Ca (%)	P (%)
			lb/day	% of DM	lb/day	% of DM		
Growing Steer and Heifer Calves, 1,200 Pounds at Finishing								
400	1.5	10.7	1.3	12.1	6.8	64	0.50	0.24
500	1.5	12.6	1.41	11/2	8.3	64	0.42	0.22
600	1.5	14.4	1.53	10.6	9.2	64	0.38	0.20
Growing Yearling 1,300 Pounds at Finishing								
715	2.1	19.6	2.0	10.2	11.8	60	0.36	0.19
845	2.1	22.2	2.0	9.1	13.3	60	0.32	0.17
975	2.1	24.7	2.1	8.3	14.8	60	0.28	0.16
Gestating Mature Cow—Middle Third of Pregnancy, Expected Calf Birth Weight 75 lb								
1,100	1.8	19.3	1.45	7.5	9.7	50	0.29	0.18
Gestating Mature Cows—Last Third of Pregnancy, Expected Calf Birth Weight 75 lb								
1,100	2.0	21.6	1.62	7.5	11.7	54	0.26	0.17
Lactating Cow Three to Four Months Postpartum Nursing Calves, Peak Milk 20 lb per Day								
1,100	-	22.3	2.6	11.9	14.5	65.2	0.38	0.27
Pregnant Yearling Heifer, Last Third of Pregnancy								
900	.9	18.3	1.5	8.1	9.9	54.3	0.26	0.20

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Table 2. Nutrient Requirements of Beef Cattle								
Body Weight (lb)	Daily Gain (lb)	Dry Matter Intake (lb)	Crude Protein		TDN		Ca (%)	P (%)
			lb/day	% of DM	lb/day	% of DM		
Two-year-old Heifers, Nursing Calves Three to Four Months Postpartum, 10 lb of Milk per Day								
1,000	.5	20.8	2.1	10	12.9	61.9	0.31	0.23
Growing Bull, Mature Weight 1,700 lb								
1,400	.4	31	2.3	7.5	15.4	50	0.16	0.11
Mature Bull, 1,700 lb								
1,700	0	33	2.5	7.5	15.1	46	0.16	0.12
Vitamin A requirement for (1) pregnant heifers and cows = 1,270 lb dry feed; (2) lactating cows and breeding bulls = 1,770 IU per lb dry feed.								
Source: Adapted from NRC. (2000). Nutrition requirements of beef cattle (7 th Ed.) <i>National Academy Press</i> , Washington, D.C.								