

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter)<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
<i>Medium-frame steer calves</i>								
300	0.5	7.8	9.6	0.75	54.0	4.2	0.27	0.18
	1.0	8.4	11.4	0.95	58.5	4.9	0.38	0.21
	1.5	8.7	13.2	1.14	63.0	5.5	0.47	0.25
	2.0	8.9	14.8	1.32	67.5	6.0	0.56	0.26
	2.5	8.9	16.7	1.48	73.5	6.5	0.68	0.30
	3.0	8.0	19.9	1.60	85.0	6.8	1.13	0.47
400	0.5	9.7	8.9	0.87	54.0	5.2	0.27	0.18
	1.0	10.4	10.3	1.06	58.5	6.1	0.38	0.21
	1.5	10.8	11.5	1.24	63.0	6.8	0.47	0.25
	2.0	11.0	12.7	1.41	67.5	7.4	0.56	0.26
	2.5	11.0	14.2	1.56	73.5	8.1	0.68	0.30
	3.0	10.0	16.6	1.65	85.0	8.5	0.86	0.37
500	0.5	11.5	8.5	0.98	54.0	6.2	0.25	0.17
	1.0	12.3	9.5	1.16	58.5	7.2	0.32	0.20
	1.5	12.8	10.5	1.33	63.0	8.1	0.40	0.22
	2.0	13.1	11.4	1.49	67.5	8.8	0.47	0.24
	2.5	13.0	12.5	1.63	73.5	9.6	0.56	0.27
	3.0	11.8	14.4	1.69	85.0	10.0	0.69	0.32
600	0.5	13.2	8.2	1.08	54.0	7.1	0.23	0.18
	1.0	14.1	9.0	1.26	58.5	8.3	0.28	0.19
	1.5	14.7	9.8	1.42	63.0	9.3	0.35	0.21
	2.0	15.0	10.5	1.57	67.5	10.1	0.40	0.22
	2.5	14.9	11.4	1.69	73.5	11.0	0.46	0.24
	3.0	13.5	12.9	1.73	85.0	11.5	0.57	0.29
700	0.5	14.8	7.9	1.18	54.0	8.0	0.22	0.18
	1.0	15.8	8.6	1.35	58.5	9.2	0.27	0.18
	1.5	16.5	9.2	1.50	63.0	10.4	0.31	0.20
	2.0	16.8	9.8	1.65	67.5	11.3	0.34	0.21

	2.5	16.7	10.5	1.75	73.5	12.3	0.40	0.22
<b>Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup></b>								
Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	3.0	15.2	11.7	1.77	85.0	12.9	0.49	0.26
800	0.5	16.4	7.7	1.27	54.0	8.9	0.22	0.17
	1.0	17.5	8.3	1.44	58.5	10.2	0.24	0.19
	1.5	18.2	8.8	1.58	63.0	11.5	0.28	0.19
	2.0	18.6	9.2	1.72	67.5	12.6	0.31	0.20
	2.5	18.5	9.8	1.81	73.5	13.6	0.35	0.21
	3.0	16.8	10.8	1.81	85.0	14.3	0.42	0.25
900	0.5	17.9	7.6	1.36	54.0	9.7	0.21	0.18
	1.0	19.1	8.0	1.52	58.5	11.2	0.23	0.18
	1.5	19.9	8.4	1.66	63.0	12.5	0.25	0.19
	2.0	20.3	8.8	1.79	67.5	13.7	0.28	0.20
	2.5	20.2	9.3	1.87	73.5	14.8	0.31	0.20
	3.0	18.3	10.1	1.85	85.0	15.6	0.37	0.23
1000	0.5	19.3	7.5	1.45	54.0	10.4	0.21	0.18
	1.0	20.7	7.8	1.60	58.5	12.1	0.21	0.18
	1.5	21.5	8.1	1.74	63.0	13.5	0.24	0.18
	2.0	22.0	8.4	1.85	67.5	14.9	0.25	0.19
	2.5	21.9	8.8	1.92	73.5	16.1	0.27	0.19
	3.0	19.8	9.5	1.88	85.0	16.8	0.32	0.22
<i>Large-frame steer calves and compensating medium-frame yearling steers</i>								
300	0.5	8.2	9.5	0.77	52.5	4.3	0.30	0.19
	1.0	8.7	11.3	0.99	56.0	4.9	0.46	0.23
	1.5	9.1	12.9	1.19	59.5	5.4	0.58	0.27
	2.0	9.4	14.6	1.37	63.5	6.0	0.70	0.30
	2.5	9.6	16.3	1.55	67.5	6.5	0.85	0.34
	3.0	9.6	18.0	1.73	72.0	6.9	0.99	0.39
	3.5	9.3	20.3	1.88	78.5	7.3	1.16	0.45

400	0.5	10.1	8.9	0.89	52.5	5.3	0.26	0.17
	1.0	10.8	10.2	1.10	56.0	6.0	0.37	0.20

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
400	1.5	11.3	11.4	1.30	59.5	6.7	0.47	0.23
	2.0	11.7	12.7	1.47	63.5	7.4	0.57	0.26
	2.5	11.9	13.9	1.64	67.5	8.0	0.65	0.30
	3.0	11.9	15.2	1.81	72.0	8.6	0.76	0.33
	3.5	11.5	16.9	1.94	78.5	9.0	0.90	0.36
	500	0.5	12.0	8.5	1.00	52.5	6.3	0.24
1.0		12.8	9.5	1.21	56.0	7.2	0.33	0.19
1.5		13.4	10.4	1.40	59.5	8.0	0.39	0.21
2.0		13.8	11.4	1.57	63.5	8.8	0.46	0.24
2.5		14.0	12.4	1.73	67.5	9.5	0.55	0.25
3.0		14.0	13.4	1.88	72.0	10.1	0.63	0.28
3.5		13.6	14.7	2.00	78.5	10.7	0.73	0.32
600	0.5	13.8	8.2	1.11	52.5	7.2	0.22	0.18
	1.0	14.6	9.0	1.31	56.0	8.2	0.29	0.18
	1.5	15.3	9.7	1.50	59.5	9.1	0.35	0.20
	2.0	15.8	10.5	1.66	63.5	10.0	0.40	0.22
	2.5	16.1	11.3	1.81	67.5	10.9	0.47	0.23
	3.0	16.1	12.1	1.95	72.0	11.6	0.52	0.26
	3.5	15.6	13.2	2.05	78.5	12.2	0.61	0.28
700	0.5	15.4	7.9	1.21	52.5	8.1	0.21	0.17
	1.0	16.4	8.6	1.41	56.0	9.2	0.27	0.19
	1.5	17.2	9.2	1.59	59.5	10.2	0.31	0.19
	2.0	17.8	9.8	1.74	63.5	11.3	0.36	0.21
	2.5	18.0	10.5	1.88	67.5	12.2	0.40	0.22
	3.0	18.0	11.1	2.01	72.0	13.0	0.45	0.23
	3.5	17.5	12.0	2.10	78.5	13.7	0.52	0.26

800	0.5	17.1	7.7	1.31	52.5	8.9	0.21	0.18
	1.0	18.2	8.3	1.51	56.0	10.2	0.24	0.18
	1.5	19.0	8.8	1.68	59.5	11.3	0.28	0.19

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
800	2.0	19.6	9.3	1.82	63.5	12.4	0.32	0.20
	2.5	19.9	9.8	1.96	67.5	13.4	0.35	0.21
	3.0	19.9	10.4	2.07	72.0	14.3	0.40	0.22
	3.5	19.3	11.1	2.15	78.5	15.2	0.45	0.24
	900	0.5	18.6	7.6	1.40	52.5	9.8	0.20
900	1.0	19.8	8.0	1.60	56.0	11.2	0.23	0.18
	1.5	20.8	8.5	1.77	59.5	12.4	0.27	0.18
	2.0	21.4	8.9	1.90	63.5	13.6	0.29	0.20
	2.5	21.8	9.3	2.03	67.5	14.7	0.31	0.20
	3.0	21.7	9.8	2.13	72.0	15.6	0.36	0.21
	3.5	21.1	10.4	2.19	78.5	16.6	0.40	0.23
	1000	0.5	20.2	7.5	1.49	52.5	10.6	0.20
1000	1.0	21.5	7.8	1.69	56.0	12.0	0.23	0.17
	1.5	22.5	8.2	1.85	59.5	13.4	0.25	0.18
	2.0	23.2	8.6	1.98	63.5	14.7	0.27	0.18
	2.5	23.6	8.9	2.09	67.5	15.9	0.29	0.19
	3.0	23.6	9.3	2.19	72.0	17.0	0.32	0.20
	3.5	22.8	9.8	2.24	78.5	17.9	0.35	0.21
	1100	0.5	21.7	7.4	1.58	52.5	11.4	0.19
1100	1.0	23.1	7.7	1.77	56.0	12.9	0.21	0.18
	1.5	24.1	8.0	1.93	59.5	14.3	0.23	0.18
	2.0	24.9	8.3	2.05	63.5	15.8	0.25	0.18
	2.5	25.3	8.5	2.16	67.5	17.1	0.26	0.18
	3.0	25.3	8.9	2.25	72.0	18.2	0.29	0.19
	3.5	24.5	9.3	2.28	78.5	19.2	0.32	0.21

*Medium-frame bulls*

300	0.5	7.8	9.7	0.76	53.5	4.2	0.31	0.20
	1.0	8.3	11.6	0.96	57.5	4.8	0.48	0.24
	1.5	8.6	13.4	1.15	61.5	5.3	0.62	0.28
	2.0	8.8	15.2	1.34	65.5	5.8	0.75	0.33

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	2.5	8.9	17.0	1.52	70.0	6.2	0.92	0.37
	3.0	8.7	19.3	1.68	76.5	6.7	1.09	0.43
400	0.5	9.6	9.0	0.87	53.5	5.1	0.28	0.18
	1.0	10.3	10.4	1.07	57.5	5.9	0.39	0.21
	1.5	10.7	11.8	1.26	61.5	6.6	0.49	0.25
	2.0	11.0	13.1	1.44	65.5	7.2	0.60	0.28
	2.5	11.1	14.4	1.60	70.0	7.8	0.70	0.32
	3.0	10.8	16.1	1.74	76.5	8.3	0.84	0.37
500	0.5	11.4	8.6	0.76	53.5	6.1	0.25	0.17
	1.0	12.1	9.7	0.96	57.5	7.0	0.35	0.20
	1.5	12.7	10.7	1.15	61.5	7.8	0.42	0.23
	2.0	13.0	11.7	1.34	65.5	8.5	0.49	0.25
	2.5	13.1	12.8	1.52	70.0	9.2	0.59	0.27
	3.0	12.8	14.1	1.68	76.5	9.8	0.69	0.31
600	0.5	13.1	8.3	1.08	53.5	7.0	0.24	0.19
	1.0	13.9	9.2	1.27	57.5	8.0	0.30	0.19
	1.5	14.5	10.0	1.44	61.5	8.9	0.36	0.21
	2.0	14.9	10.8	1.61	65.5	9.8	0.43	0.24
	2.5	15.0	11.6	1.75	70.0	10.5	0.50	0.25
	3.0	14.7	12.7	1.86	76.5	11.2	0.57	0.29
700	0.5	14.7	8.0	1.18	53.5	7.9	0.23	0.18
	1.0	15.6	8.8	1.37	57.5	9.0	0.28	0.20

1.5	16.3	9.4	1.53	61.5	10.0	0.32	0.20
2.0	16.7	10.1	1.69	65.5	10.9	0.38	0.22
2.5	16.8	10.8	1.82	70.0	11.8	0.43	0.24
3.0	16.5	11.7	1.92	76.5	12.6	0.49	0.25

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
800	0.5	16.2	7.8	1.27	53.5	8.7	0.22	0.19
	1.0	17.3	8.4	1.45	57.5	9.9	0.25	0.19
	1.5	18.0	9.0	1.61	61.5	11.1	0.29	0.20
	2.0	18.5	9.5	1.76	65.5	12.1	0.33	0.21
	2.5	18.6	10.1	1.89	70.0	13.0	0.38	0.23
	3.0	18.2	10.8	1.97	76.5	13.9	0.44	0.24
900	0.5	17.7	7.7	1.36	53.5	9.5	0.21	0.19
	1.0	18.9	8.2	1.54	57.5	10.9	0.25	0.19
	1.5	19.7	8.6	1.69	61.5	12.1	0.28	0.19
	2.0	20.2	9.1	1.83	65.5	13.2	0.31	0.21
	2.5	20.3	9.6	1.95	70.0	14.2	0.34	0.22
	3.0	19.9	10.2	2.02	76.5	15.2	0.39	0.23
1000	0.5	19.2	7.5	1.45	53.5	10.3	0.21	0.18
	1.0	20.4	8.0	1.62	57.5	11.7	0.24	0.18
	1.5	21.3	8.4	1.77	61.5	13.1	0.26	0.19
	2.0	21.8	8.7	1.90	65.5	14.3	0.28	0.19
	2.5	22.0	9.1	2.01	70.0	15.4	0.31	0.20
	3.0	21.5	9.6	2.07	76.5	16.4	0.35	0.22
1100	0.5	20.6	7.4	1.54	53.5	11.0	0.20	0.19
	1.0	21.9	7.8	1.70	57.5	12.6	0.22	0.19
	1.5	22.9	8.1	1.85	61.5	14.1	0.24	0.19
	2.0	23.4	8.4	1.97	65.5	15.3	0.26	0.19
	2.5	23.6	8.7	2.07	70.0	16.5	0.28	0.20

	3.0	23.1	9.2	2.11	76.5	17.7	0.32	0.21
	<i>Large-frame bull calves and compensating large-frame yearling steers</i>							
300	0.5	7.9	9.7	0.77	52.5	4.1	0.31	0.20
	1.0	8.4	11.7	0.98	56.0	4.7	0.47	0.24
	1.5	8.8	13.5	1.18	59.5	5.2	0.63	0.28
	2.0	9.0	15.1	1.38	62.5	5.6	0.76	0.32
	2.5	9.2	17.0	1.56	66.5	6.1	0.91	0.36

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	3.0	9.2	18.8	1.74	70.5	6.5	1.08	0.43
	3.5	9.1	20.9	1.91	75.5	6.9	1.24	0.48
	4.0	8.2	24.7	2.04	86.0	7.1	1.53	0.59
400	0.5	9.8	9.0	0.89	52.5	5.1	0.27	0.18
	1.0	10.4	10.5	1.09	56.0	5.8	0.40	0.21
	1.5	10.9	11.9	1.29	59.5	6.5	0.51	0.24
	2.0	11.2	13.1	1.48	62.5	7.0	0.61	0.28
	2.5	11.4	14.5	1.65	66.5	7.6	0.72	0.31
	3.0	11.5	15.9	1.82	70.5	8.1	0.82	0.35
	3.5	11.3	17.5	1.98	75.5	8.5	0.96	0.39
	4.0	10.2	20.3	2.08	86.0	8.8	1.19	0.48
500	0.5	11.6	8.6	1.00	52.5	6.1	0.25	0.19
	1.0	12.3	9.8	1.20	56.0	6.9	0.36	0.21
	1.5	12.9	10.9	1.39	59.5	7.7	0.43	0.22
	2.0	13.2	11.8	1.58	62.5	8.3	0.52	0.25
	2.5	13.5	12.9	1.74	66.5	9.0	0.59	0.28
	3.0	13.6	14.0	1.90	70.5	9.6	0.68	0.31
	3.5	13.4	15.3	2.05	75.5	10.1	0.77	0.35
	4.0	12.0	17.5	2.13	86.0	10.3	0.97	0.40
600	0.5	13.3	8.3	1.10	52.5	7.0	0.23	0.18
	1.0	14.1	9.2	1.30	56.0	7.9	0.31	0.20
	1.5	14.8	10.1	1.48	59.5	8.8	0.37	0.21
	2.0	15.2	10.9	1.67	62.5	9.5	0.44	0.23
	2.5	15.5	11.8	1.82	66.5	10.3	0.51	0.26
	3.0	15.5	12.7	1.97	70.5	10.9	0.58	0.27
	3.5	15.3	13.7	2.11	75.5	11.6	0.66	0.30
	4.0	13.8	15.6	2.16	86.0	11.9	0.81	0.37
700	0.5	14.9	8.0	1.20	52.5	7.8	0.22	0.18



	1.0	15.9	8.8	1.40	56.0	8.9	0.29	0.19
<b>Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup></b>								
Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	1.5	16.6	9.6	1.57	59.5	9.9	0.35	0.21
	2.0	17.0	10.2	1.75	62.5	10.6	0.39	0.22
	2.5	17.4	11.0	1.90	66.5	11.6	0.44	0.24
	3.0	17.5	11.7	2.04	70.5	12.3	0.50	0.25
	3.5	17.2	12.5	2.16	75.5	13.0	0.56	0.28
	4.0	15.5	14.1	2.20	86.0	13.3	0.70	0.33
800	0.5	16.5	7.9	1.30	52.5	8.7	0.21	0.19
	1.0	17.5	8.5	1.49	56.0	9.8	0.26	0.19
	1.5	18.3	9.1	1.66	59.5	10.9	0.31	0.20
	2.0	18.8	9.7	1.84	62.5	11.8	0.35	0.21
	2.5	19.2	10.3	1.97	66.5	12.8	0.40	0.23
	3.0	19.3	10.9	2.11	70.5	13.6	0.45	0.24
	3.5	19.0	11.6	2.22	75.5	14.3	0.50	0.26
	4.0	17.1	13.0	2.24	86.0	14.7	0.61	0.31
900	0.5	18.0	7.7	1.39	52.5	9.5	0.22	0.18
	1.0	19.2	8.3	1.58	56.0	10.8	0.25	0.18
	1.5	20.0	8.8	1.74	59.5	11.9	0.29	0.20
	2.0	20.6	9.2	1.92	62.5	12.9	0.32	0.20
	2.5	21.0	9.8	2.04	66.5	14.0	0.36	0.21
	3.0	21.1	10.3	2.17	70.5	14.9	0.40	0.23
	3.5	20.8	10.9	2.27	75.5	15.7	0.45	0.24
	4.0	18.7	12.1	2.27	86.0	16.1	0.53	0.28
1000	0.5	19.5	7.6	1.48	52.5	10.2	0.21	0.18
	1.0	20.7	8.1	1.66	56.0	11.6	0.25	0.19
	1.5	21.7	8.5	1.83	59.5	12.9	0.27	0.19
	2.0	22.3	8.9	1.99	62.5	13.9	0.30	0.20
	2.5	22.7	9.3	2.11	66.5	15.1	0.33	0.20
	3.0	22.8	9.7	2.23	70.5	16.1	0.36	0.21

3.5	22.5	10.3	2.32	75.5	17.0	0.40	0.24
4.0	20.2	11.3	2.30	86.0	17.4	0.48	0.27

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
1100	0.5	20.9	7.5	1.57	52.5	11.0	0.21	0.19
	1.0	22.3	7.9	1.75	56.0	12.5	0.23	0.19
	1.5	23.3	8.3	1.91	59.5	13.9	0.26	0.19
	2.0	23.9	8.6	2.07	62.5	14.9	0.28	0.19
	2.5	24.2	9.0	2.18	66.5	16.1	0.30	0.20
	3.0	24.5	9.3	2.29	70.5	17.3	0.32	0.21
	3.5	24.1	9.8	2.37	75.5	18.2	0.36	0.22
	4.0	21.7	10.7	2.33	86.0	18.7	0.43	0.25
<i>Medium-frame heifer calves</i>								
300	0.5	7.5	9.6	0.73	56.0	4.2	0.29	0.21
	1.0	8.0	11.4	0.91	62.0	5.0	0.44	0.22
	1.5	8.2	13.1	1.08	68.5	5.6	0.59	0.27
	2.0	8.0	15.1	1.22	77.0	6.2	0.74	0.33
400	0.5	9.3	8.9	0.84	56.0	5.2	0.26	0.19
	1.0	9.9	10.2	1.01	62.0	6.1	0.36	0.20
	1.5	10.2	11.4	1.17	68.5	7.0	0.45	0.24
	2.0	10.0	12.9	1.29	77.0	7.7	0.57	0.29
500	0.5	11.0	8.5	0.94	56.0	6.2	0.24	0.18
	1.0	11.8	9.4	1.11	62.0	7.3	0.30	0.21
	1.5	12.1	10.3	1.25	68.5	8.4	0.38	0.22
	2.0	11.8	11.4	1.35	77.0	9.1	0.45	0.24
600	0.5	12.6	8.1	1.04	56.0	7.1	0.23	0.18
	1.0	13.5	8.8	1.19	62.0	8.4	0.28	0.20
	1.5	13.8	9.5	1.32	68.5	9.5	0.32	0.21
	2.0	13.5	10.4	1.41	77.0	10.4	0.38	0.23

700	0.5	14.1	7.9	1.13	56.0	8.0	0.22	0.19
	1.0	15.1	8.4	1.28	62.0	9.4	0.25	0.19
	1.5	15.5	9.0	1.39	38.5	10.6	0.28	0.20

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	2.0	15.2	9.6	1.46	77.0	11.7	0.32	0.22
800	0.5	15.6	7.7	1.22	56.0	8.7	0.21	0.18
	1.0	16.7	8.1	1.36	62.0	10.4	0.22	0.18
	1.5	17.2	8.5	1.46	68.5	11.8	0.24	0.19
	2.0	16.8	9.0	1.51	77.0	12.9	0.28	0.20
900	0.5	17.1	7.5	1.31	56.0	9.6	0.21	0.18
	1.0	18.3	7.8	1.44	62.0	11.3	0.22	0.18
	1.5	18.8	8.1	1.53	68.5	12.9	0.22	0.19
	2.0	18.3	8.5	1.56	77.0	14.1	0.25	0.19
1000	0.5	18.5	7.4	1.39	56.0	10.4	0.20	0.19
	1.0	19.8	7.6	1.51	62.0	12.3	0.20	0.18
	1.5	20.3	7.8	1.59	68.5	13.9	0.21	0.18
	2.0	19.8	8.1	1.61	77.0	15.2	0.22	0.19
<i>Large-frame heifer calves and compensating medium-frame yearling heifers</i>								
300	0.5	7.8	9.5	0.76	54.0	4.2	0.31	0.20
	1.0	8.4	11.3	0.95	59.0	5.0	0.45	0.24
	1.5	8.8	13.0	1.13	64.0	5.6	0.58	0.25
	2.0	8.9	14.6	1.30	69.5	6.2	0.69	0.30
	2.5	8.7	16.7	1.45	77.0	7.0	0.86	0.35
400	0.5	9.7	8.9	0.87	54.0	5.2	0.27	0.18
	1.0	10.5	10.1	1.06	59.0	6.2	0.36	0.21
	1.5	10.9	11.3	1.23	64.0	7.0	0.45	0.22
	2.0	11.1	12.6	1.38	69.5	7.7	0.54	0.26
	2.5	10.8	14.1	1.51	77.0	8.3	0.65	0.31

500	0.5	11.5	8.4	0.98	54.0	6.1	0.23	0.17
	1.0	12.4	9.4	1.16	59.0	7.3	0.30	0.20
	1.5	12.9	10.3	1.32	64.0	8.3	0.38	0.20
	2.0	13.1	11.2	1.46	69.5	9.1	0.44	0.24

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
600	2.5	12.8	12.4	1.57	77.0	10.0	0.53	0.26
	0.5	13.2	8.1	1.08	54.0	7.1	0.22	0.18
	1.0	14.1	8.9	1.25	59.0	8.3	0.28	0.19
	1.5	14.8	9.6	1.41	64.0	9.5	0.33	0.19
	2.0	15.0	10.3	1.54	69.5	10.4	0.38	0.22
700	2.5	14.6	11.2	1.63	77.0	11.2	0.44	0.24
	0.5	14.8	7.9	1.18	54.0	8.0	0.21	0.18
	1.0	15.9	8.5	1.34	59.0	9.4	0.25	0.18
	1.5	16.6	9.0	1.49	64.0	10.6	0.29	0.19
	2.0	16.8	9.6	1.61	69.5	11.7	0.33	0.20
800	2.5	16.4	10.3	1.68	77.0	12.6	0.38	0.22
	0.5	16.4	7.7	1.27	54.0	8.9	0.20	0.17
	1.0	17.6	8.2	1.43	59.0	10.4	0.24	0.18
	1.5	18.3	8.6	1.57	64.0	11.7	0.25	0.18
	2.0	18.6	9.0	1.67	69.5	12.9	0.28	0.19
900	2.5	18.1	9.6	1.74	77.0	13.9	0.33	0.21
	0.5	17.8	7.5	1.36	54.0	9.6	0.20	0.18
	1.0	19.2	7.9	1.52	59.0	11.3	0.24	0.18
	1.5	20.0	8.2	1.64	64.0	12.8	0.25	0.18
	2.0	20.3	8.6	1.74	69.5	14.1	0.28	0.18
1000	2.5	19.8	9.0	1.78	77.0	15.2	0.33	0.20
	0.5	19.3	7.4	1.45	54.0	10.4	0.19	0.18
	1.0	20.8	7.7	1.60	59.0	12.3	0.21	0.18

	1.5	21.7	8.0	1.71	64.0	13.9	0.21	0.18
	2.0	22.0	8.2	1.80	69.5	15.3	0.23	0.18
	2.5	21.5	8.6	1.83	77.0	16.6	0.25	0.18
1100	0.5	20.8	7.3	1.54	54.0	11.2	0.19	0.18

**Table 1.1. Nutrient Requirements for Growing and Finishing Cattle (Nutrient Concentration in Diet Dry Matter), continued<sup>a</sup>**

Weight (lb)	Daily Gain (lb)	DM Intake (lb)	Protein (%)	Protein (lb)	TDN (%)	TDN (lb)	Ca (%)	P (%)
	1.0	22.3	7.5	1.68	59.0	13.2	0.20	0.18
	1.5	23.3	7.7	1.78	64.0	14.9	0.20	0.18
	2.0	23.6	7.9	1.86	69.5	16.4	0.21	0.18
	2.5	23.1	8.2	1.88	77.0	17.8	0.22	0.18

<sup>a</sup> Adapted from NRC, Nutrient Requirements of Beef Cattle, 1984.