

Table 9 (Continued). Nutrient Requirements of Growing Yearlings – Bulls^a, Steers^b and Heifers^b

Body Wt. (lb)	ADG (lb)	DMI (lb/day)	Diet Nutrient Density						Daily Nutrients per Animal							
			TDN (%DM)	NE _m (Mcal/lb)	NE _g (Mcal/lb)	CP (%DM)	Ca (%DM)	P (%DM)	TDN (lb)	NE _m (Mcal)	NE _g (Mcal)	CP (lb)	Ca (lb)	P (lb)	Vit. A (1000's IU)	
1,200 lb @ Finishing																
660	0.72	17.5	50	0.45	0.20	7.3	0.22	0.13	8.8	5.54	1.06	1.28	.039	.023	18	
	2.00	18.4	60	0.61	0.35	10.2	0.36	0.19	11.0	5.54	3.25	1.88	.066	.035	18	
	3.04	18.0	70	0.76	0.48	13.0	0.49	0.24	12.6	5.54	5.15	2.34	.088	.043	18	
	3.78	17.0	80	0.90	0.61	15.8	0.61	0.29	13.6	5.54	6.54	2.69	.104	.049	17	
	4.25	15.7	90	1.04	0.72	18.4	0.72	0.34	14.1	5.54	7.44	2.89	.113	.053	16	
720	0.72	18.6	50	0.45	0.20	7.1	0.21	0.13	9.3	5.92	1.13	1.32	.039	.024	19	
	2.00	19.7	60	0.61	0.35	9.7	0.34	0.18	11.8	5.92	3.47	1.91	.067	.035	20	
	3.04	19.2	70	0.76	0.48	12.2	0.45	0.23	13.4	5.92	5.50	2.34	.086	.044	19	
	3.78	18.2	80	0.90	0.61	14.6	0.56	0.27	14.6	5.92	6.98	2.66	.102	.049	18	
	4.25	16.8	90	1.04	0.72	17.0	0.66	0.32	15.1	5.92	7.94	2.86	.111	.054	17	
780	0.72	19.8	50	0.45	0.20	6.9	0.20	0.13	9.9	6.28	1.20	1.37	.040	.026	20	
	2.00	20.9	60	0.61	0.35	9.2	0.32	0.17	12.5	6.28	3.69	1.92	.067	.036	21	
	3.04	20.4	70	0.76	0.48	11.4	0.42	0.21	14.3	6.28	5.84	2.33	.086	.043	20	
	3.78	19.3	80	0.90	0.61	13.6	0.52	0.26	15.4	6.28	7.41	2.62	.100	.050	19	
	4.25	17.8	90	1.04	0.72	15.8	0.61	0.30	16.0	6.28	8.43	2.81	.109	.053	18	
840	0.72	20.9	50	0.45	0.20	6.8	0.20	0.13	10.5	6.64	1.27	1.42	.042	.027	21	
	2.00	22.1	60	0.61	0.35	8.8	0.30	0.16	13.3	6.64	3.90	1.94	.071	.035	22	
	3.04	21.6	70	0.76	0.48	10.8	0.39	0.20	15.1	6.64	6.17	2.33	.091	.043	22	
	3.78	20.4	80	0.90	0.61	12.8	0.48	0.24	16.3	6.64	7.84	2.61	.106	.049	20	
	4.25	18.8	90	1.04	0.72	14.7	0.56	0.28	16.9	6.64	8.91	2.76	.115	.053	19	
900	0.72	22.0	50	0.45	0.20	6.6	0.19	0.12	11.0	6.99	1.34	1.45	.042	.026	22	
	2.00	23.3	60	0.61	0.35	8.4	0.28	0.16	14.0	6.99	4.11	1.96	.065	.037	23	
	3.04	22.7	70	0.76	0.48	10.2	0.37	0.19	15.9	6.99	6.50	2.32	.084	.043	23	
	3.78	21.5	80	0.90	0.61	12.0	0.44	0.23	17.2	6.99	8.25	2.58	.095	.049	22	
	4.25	19.8	90	1.04	0.72	13.8	0.52	0.26	17.8	6.99	9.39	2.73	.103	.051	20	
960	0.72	23.1	50	0.45	0.20	6.5	0.19	0.12	11.6	7.34	1.40	1.50	.044	.028	23	
	2.00	24.4	60	0.61	0.35	8.1	0.27	0.15	14.6	7.34	4.31	1.98	.066	.037	24	
	3.04	23.9	70	0.76	0.48	9.7	0.34	0.19	16.7	7.34	6.82	2.32	.081	.045	24	
	3.78	22.5	80	0.90	0.61	11.3	0.41	0.22	18.0	7.34	8.66	2.54	.092	.050	23	
	4.25	20.8	90	1.04	0.72	13.0	0.48	0.25	18.7	7.34	9.85	2.70	.100	.052	21	
1,300 Lb @ Finishing																
715	0.76	18.5	50	0.45	0.20	7.3	0.22	0.13	9.3	5.89	1.13	1.35	.041	.024	19	
	2.11	19.6	60	0.61	0.35	10.2	0.36	0.19	11.8	5.89	3.45	2.00	.071	.037	20	
	3.21	19.1	70	0.76	0.48	13.0	0.49	0.24	13.4	5.89	5.47	2.48	.094	.046	19	
	3.99	18.1	80	0.90	0.61	15.7	0.61	0.29	14.5	5.89	6.94	2.84	.110	.052	18	
	4.48	16.7	90	1.04	0.72	18.3	0.72	0.34	15.0	5.89	7.88	3.06	.120	.057	17	
780	0.76	19.8	50	0.45	0.20	7.1	0.21	0.13	9.9	6.28	1.20	1.41	.042	.026	20	
	2.11	20.9	60	0.61	0.35	9.6	0.34	0.18	12.5	6.28	3.68	2.01	.071	.038	21	
	3.21	20.4	70	0.76	0.48	12.1	0.45	0.23	14.3	6.28	5.84	2.47	.092	.047	20	
	3.99	19.3	80	0.90	0.61	14.5	0.56	0.27	15.4	6.28	7.41	2.80	.108	.052	19	
	4.48	17.8	90	1.04	0.72	16.9	0.66	0.32	16.0	6.28	8.41	3.01	.117	.057	18	
845	0.76	21.0	50	0.45	0.20	6.9	0.21	0.13	10.5	6.67	1.28	1.45	.044	.027	21	
	2.11	22.2	60	0.61	0.35	9.1	0.32	0.17	13.3	6.67	3.91	2.02	.071	.038	22	
	3.21	21.7	70	0.76	0.48	11.4	0.42	0.22	15.2	6.67	6.20	2.47	.091	.048	22	
	3.99	20.5	80	0.90	0.61	13.6	0.51	0.26	16.4	6.67	7.87	2.79	.105	.053	21	
	4.48	18.9	90	1.04	0.72	15.7	0.60	0.30	17.0	6.67	8.93	2.97	.113	.057	19	
910	0.76	22.2	50	0.45	0.20	6.7	0.20	0.13	11.1	7.05	1.35	1.49	.044	.029	22	
	2.11	23.5	60	0.61	0.35	8.7	0.30	0.17	14.1	7.05	4.13	2.04	.071	.040	24	
	3.21	22.9	70	0.76	0.48	10.7	0.39	0.20	16.0	7.05	6.55	2.45	.089	.046	23	
	3.99	21.6	80	0.90	0.61	12.7	0.48	0.24	17.3	7.05	8.32	2.74	.104	.052	22	
	4.48	20.0	90	1.04	0.72	14.6	0.56	0.28	18.0	7.05	9.44	2.92	.112	.056	20	
975	0.76	23.4	50	0.45	0.20	6.6	0.20	0.13	11.7	7.43	1.42	1.54	.047	.030	23	
	2.11	24.7	60	0.61	0.35	8.3	0.28	0.16	14.8	7.43	4.35	2.05	.069	.040	25	
	3.21	24.1	70	0.76	0.48	10.2	0.37	0.19	16.9	7.43	6.90	2.46	.089	.046	24	
	3.99	22.8	80	0.90	0.61	11.9	0.44	0.23	18.2	7.43	8.76	2.71	.100	.052	23	
	4.48	21.0	90	1.04	0.72	13.7	0.52	0.26	18.9	7.43	9.94	2.88	.109	.055	21	
1040	0.76	24.5	50	0.45	0.20	6.5	0.19	0.13	12.3	7.80	1.49	1.59	.047	.032	25	
	2.11	25.9	60	0.61	0.35	8.0	0.27	0.15	15.5	7.80	4.57	2.07	.070	.039	26	
	3.21	25.3	70	0.76	0.48	9.6	0.34	0.19	17.7	7.80	7.24	2.43	.086	.048	25	
	3.99	23.9	80	0.90	0.61	11.3	0.41	0.22	19.1	7.80	9.19	2.70	.098	.053	24	
	4.48	22.1	90	1.04	0.72	12.9	0.48	0.25	19.9	7.80	10.44	2.85	.106	.055	22	

^aUse expected mature weight of bull times 0.60 to choose weight to use for growing bull calves.^b1,000 to 1,400 lb @ finishing (28 percent body fat) or maturity (replacement heifers).