

NATIONAL ORGANIC PROGRAM Dry Matter Demand Tables For Classes of Beef Cattle





Photo courtesy of USDA-NRCS

Adapted from: "Nutrient Requirement Tables," from Nutrient Requirements of Beef Cattle: Seventh Revised Edition: Update 2000, by Subcommittee on Beef Cattle Nutrition, Committee on Animal Nutrition, National Research Council, 1996, Washington, D.C.: National Academies Press. Copyright 1996 by National Academy of Sciences.

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Table 2-1. Daily Dry Matter Demand Requirements in Pounds and Percent of Body Weight

Beef Cows

1,000 - 1,400 lb Mature Body Weights and 10 - 30 lb of Milk Production/Day

	Months Since Calving												
	1	2	3	4	5	6	7	8	9	10	11	12	Average
1,000 lb Mature Weight, 10 lb/d Peak Milk													
DMD, lb	21.60	22.10	23.00	22.50	22.10	21.70	21.10	21.00	20.90	20.80	21.00	21.40	21.60 lb
DMD as % Body Weight	2.16	2.21	2.30	2.25	2.21	2.17	2.11	2.10	2.09	2.08	2.10	2.14	2.16 % Body Weight
1,000 lb Mature Weight, 20 lb/d Peak Milk													
DMD, lb	24.00	25.00	25.40	24.40	23.50	22.70	21.10	21.00	20.90	20.80	21.00	21.40	22.60 lb
DMD as % Body Weight	2.40	2.50	2.54	2.44	2.35	2.27	2.11	2.10	2.09	2.08	2.10	2.14	2.26 % Body Weight
1,000 lb Mature Weight, 30 lb/d Peak Milk				-	•	-	-		-				
DMD, lb	26.40	27.80	27.80	26.40	24.90	23.70	21.10	21.00	20.90	20.80	21.00	21.40	23.60 lb
DMD as % Body Weight	2.64	2.78	2.78	2.64	2.49	2.37	2.11	2.10	2.09	2.08	2.10	2.14	2.36 % Body Weight
1,200 lb Mature Weight, 10 lb/d Peak Milk													
DMD, lb	24.40	24.90	26.00	25.60	25.10	24.80	24.20	24.10	24.00	23.90	24.10	24.60	24.64 lb
DMD as % Body Weight	2.03	2.08	2.17	2.13	2.09	2.07	2.02	2.01	2.00	1.99	2.01	2.05	2.05 % Body Weight
1,200 lb Mature Weight, 20 lb/d Peak Milk				<u> </u>		<u> </u>	<u> </u>		<u> </u>			Į.	, 5
DMD, lb	26.80	27.80	28.40	27.40	26.50	25.70	24.20	24.10	24.00	23.90	24.10	24.60	25.63 lb
DMD as % Body Weight	2.23	2.32	2.37	2.28	2.21	2.14	2.02	2.01	2.00	1.99	2.01	2.05	2.14 % Body Weight
1,200 lb Mature Weight, 30 lb/d Peak Milk					•								
DMD, lb	29.20	30.60	30.80	29.40	27.90	26.70	24.20	24.10	24.00	23.90	24.10	24.60	26.63 lb
DMD as % Body Weight	2.43	2.55	2.57	2.45	2.33	2.23	2.02	2.01	2.00	1.99	2.01	2.05	2.22 % Body Weight
1,400 lb Mature Weight, 10 lb/d Peak Milk													
DMD, lb	27.10	27.60	28.90	28.50	28.00	27.70	27.20	27.00	26.90	26.80	27.00	27.60	27.53 lb
DMD as % Body Weight	1.94	1.97	2.06	2.04	2.00	1.98	1.94	1.93	1.92	1.91	1.93	1.97	1.97 % Body Weight
1,400 lb Mature Weight, 10 lb/d Peak Milk	1.54	1.57	2.00	2.04	2.00	1.50	1.54	1.55	1.52	1.51	1.55	1.37	2.37 70 Body Weight
DMD. lb	29.50	30.50	31.30	30.30	29.40	28.60	27.20	27.00	26.90	26.80	27.00	27.60	28.51 lb
DMD as % Body Weight	2.11	2.18	2.24	2.16	2.10	2.04	1.94	1.93	1.92	1.91	1.93	1.97	2.04 % Body Weight
L,400 lb Mature Weight, 10 lb/d Peak Milk		0		1		1	1		1	15-			
DMD, lb	31.90	33.30	33.70	32.30	30.80	29.60	27.20	27.00	26.90	26.80	27.00	27.60	29.51 lb
DMD as % Body Weight	2.28	2.38	2.41	2.31	2.20	2.11	1.94	1.93	1.92	1.91	1.93	1.97	2.11 % Body Weight
Abbreviations used in table: DMD = Dry Matter Demand, k	g = Kilogr	am lh = D	ound d-	dav	1					1			, 3

Adapted from: "Tables 21, 22, and 23," from Nutrient Requirements of Beef Cattle: Seventh Revised Edition: Update 2000, by Subcommittee on Beef Cattle Nutrition, Committee on Animal Nutrition, National Research Council, 1996, Washington, D.C.: National Academies Press. Copyright 1996 by National Academy of Sciences.

Table 2-1. Daily Dry Matter Demand Requirements in Pounds and Percent of Body Weight

Pregnant Replacement Heifers

1,000 - 1,400 lb Mature Body Weights

	Months Since Conception								
1	2	3	4	5	6	7	8	9	Average
16.7	17.2	17.7	18.2	18.7	19.4	20.0	20.7	21.3	18.88 lb
t 1.67	1.72	1.77	1.82	1.87	1.94	2.00	2.07	2.13	1.89 % Body Weight
18.0	18.5	19.0	19.5	20.1	20.8	21.5	22.3	22.9	20.29 lb
t 1.64	1.68	1.73	1.77	1.83	1.89	1.95	2.03	2.08	1.84 % Body Weight
19.3	19.8	20.3	20.9	21.5	22.2	23.0	23.7	24.4	21.68 lb
t 1.61	1.65	1.69	1.74	1.79	1.85	1.92	1.98	2.03	1.81 % Body Weight
Ι									
20.5	21.0	21.6	22.2	22.9	23.6	24.4	25.2	25.9	23.03 lb
t 1.58	1.62	1.66	1.71	1.76	1.82	1.88	1.94	1.99	1.77 % Body Weight
21.7	22.3	22.9	23.5	24.2	24.9	25.8	26.6	27.4	24.37 lb
t 1.55	1.59	1.64	1.68	1.73	1.78	1.84	1.90	1.96	1.74 % Body Weight
Abbreviations used in table: DMD = Dry Matter Demand, lb = Pound									
ווווווווווווווווווווווווווווווווווווווו	b 16.7 th 1.67 b 18.0 th 1.64 b 19.3 th 1.61 b 20.5 th 1.58 b 21.7 th 1.55	b 16.7 17.2 th 1.67 1.72 b 18.0 18.5 th 1.64 1.68 b 19.3 19.8 th 1.61 1.65 b 20.5 21.0 th 1.58 1.62	1 2 3 b 16.7 17.2 17.7 nt 1.67 1.72 1.77 b 18.0 18.5 19.0 nt 1.64 1.68 1.73 b 19.3 19.8 20.3 nt 1.61 1.65 1.69 b 20.5 21.0 21.6 nt 1.58 1.62 1.66 b 21.7 22.3 22.9 nt 1.55 1.59 1.64	1 2 3 4 b 16.7 17.2 17.7 18.2 nt 1.67 1.72 1.77 1.82 b 18.0 18.5 19.0 19.5 nt 1.64 1.68 1.73 1.77 db 19.3 19.8 20.3 20.9 nt 1.61 1.65 1.69 1.74 db 20.5 21.0 21.6 22.2 nt 1.58 1.62 1.66 1.71 db 21.7 22.3 22.9 23.5 nt 1.55 1.59 1.64 1.68	1 2 3 4 5 b 16.7 17.2 17.7 18.2 18.7 nt 1.67 1.72 1.77 1.82 1.87 b 18.0 18.5 19.0 19.5 20.1 nt 1.64 1.68 1.73 1.77 1.83 b 19.3 19.8 20.3 20.9 21.5 nt 1.61 1.65 1.69 1.74 1.79 b 20.5 21.0 21.6 22.2 22.9 nt 1.58 1.62 1.66 1.71 1.76 b 21.7 22.3 22.9 23.5 24.2 nt 1.55 1.59 1.64 1.68 1.73	1 2 3 4 5 6 b 16.7 17.2 17.7 18.2 18.7 19.4 nt 1.67 1.72 1.77 1.82 1.87 1.94 nt 1.67 1.72 1.77 1.82 1.87 1.94 nt 1.64 1.68 1.73 1.77 1.83 1.89 nt 1.64 1.68 1.73 1.77 1.83 1.89 nt 1.61 1.65 1.69 1.74 1.79 1.85 nt 1.58 1.62 1.66 1.71 1.76 1.82 nt 1.55 1.59 1.64 1.68 1.73 1.78	1 2 3 4 5 6 7 b 16.7 17.2 17.7 18.2 18.7 19.4 20.0 nt 1.67 1.72 1.77 1.82 1.87 1.94 2.00 nt 1.67 1.72 1.77 1.82 1.87 1.94 2.00 nt 1.64 1.68 1.73 1.77 1.83 1.89 1.95 nt 1.64 1.68 1.73 1.77 1.83 1.89 1.95 nt 1.61 1.65 1.69 1.74 1.79 1.85 1.92 nt 1.58 1.62 1.66 1.71 1.76 1.82 1.88 nt 1.55 1.59 1.64 1.68 1.73 1.78 1.84	1 2 3 4 5 6 7 8 b 16.7 17.2 17.7 18.2 18.7 19.4 20.0 20.7 nt 1.67 1.72 1.77 1.82 1.87 1.94 2.00 2.07 nt 1.67 1.72 1.77 1.82 1.87 1.94 2.00 2.07 nt 1.60 18.5 19.0 19.5 20.1 20.8 21.5 22.3 nt 1.64 1.68 1.73 1.77 1.83 1.89 1.95 2.03 nt 1.61 1.65 1.69 1.74 1.79 1.85 1.92 1.98 nt 1.58 1.62 1.66 1.71 1.76 1.82 1.88 1.94 nt 1.55 1.59 1.64 1.68 1.73 1.78 1.84 1.90	1 2 3 4 5 6 7 8 9 b 16.7 17.2 17.7 18.2 18.7 19.4 20.0 20.7 21.3 b 1.67 1.72 1.77 1.82 1.87 1.94 2.00 2.07 2.13 b 18.0 18.5 19.0 19.5 20.1 20.8 21.5 22.3 22.9 b 19.3 19.8 20.3 20.9 21.5 22.2 23.0 23.7 24.4 b 1.61 1.65 1.69 1.74 1.79 1.85 1.92 1.98 2.03 b 20.5 21.0 21.6 22.2 22.9 23.6 24.4 25.2 25.9 b 21.7 22.3 22.9 23.5 24.2 24.9 25.8 26.6 27.4 b 21.7 22.3 22.9 23.5 24.2 24.9 25.8 26.6

Adapted from: "Table 20," from Nutrient Requirements of Beef Cattle: Seventh Revised Edition: Update 2000, by Subcommittee on Beef Cattle Nutrition, Committee on Animal Nutrition, National Research Council, 1996, Washington, D.C.: National Academies Press. Copyright 1996 by National Academy of Sciences.

Table 2-3. Daily Dry Matter Demand Requirements in Pounds and Percent of Body Weight

Growing and Finishing Beef Cattle

1,000 - 1,400 lb at Finishing (Slaughter Stock) or Maturity (Replacement Heifers)

	Daily DMD					
Current Body Weight, Ib	lb	% Body Weight				
300	10.1	3.35				
350	11.3	3.23				
400	12.5	3.12				
450	13.6	3.03				
500	14.8	2.95				
550	15.9	2.89				
600	16.9	2.82				
650	17.9	2.76				
700	18.0	2.58				
750	18.9	2.53				
800	20.2	2.51				
850	21.0	2.47				
900	21.8	2.44				
950	22.6	2.39				
1,050	24.5	2.33				
1,150	26.1	2.27				
Abbreviations used in table: DMD = Dry Matter Demand, lb = Pound						

Adapted from: "Tables 15, 16, 17, 18, and 19," from Nutrient Requirements of Beef Cattle: Seventh Revised Edition: Update 2000, by Subcommittee on Beef Cattle Nutrition, Committee on Animal Nutrition, National Research Council, 1996, Washington, D.C.: National Academies Press. Copyright 1996 by National Academy of Sciences.