

Table 4.11. (cont.)

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
44	1986	96	3565	148	4933	200	6183
45	2020	97	3593	149	4958	205	6298
46	2053	98	3621	150	4983	210	6413
47	2087	99	3649	151	5008	215	6527
48	2120	100	3676	152	5033	220	6641
49	2153	101	3704	153	5057	225	6754
50	2186	102	3731	154	5082	230	6866
51	2219	103	3759	155	5107	240	7089
52	2251	104	3786	156	5132	250	7309

BW, body weight.

^aDER = $3 \times$ RER (resting energy requirement).

puppies is calculated by the formula DER = $4 \times$ RER. The daily energy requirement for lactation for dams nursing more than four puppies is calculated by the formula DER = $6 \times$ RER. If dams have very large litters, the daily energy requirement may be as high as eight times RER. Daily energy requirements for dogs during lactation are found in Tables 4.12 and 4.13.

Daily Energy Requirements for Cats

■ Adult

The daily energy requirement for adult cats is based on the resting energy requirement multiplied by a factor that takes into account whether the cat is intact, neutered, or breeding. Neutering decreases the activity level and thus decreases the daily energy requirement. The daily energy requirements for intact adult cats can be found in Table 4.14. For intact adult cats, the daily energy requirement is calculated by the formula DER = $1.4 \times$ RER. The daily energy requirements for neutered adult cats can be found in Table 4.15. For neutered adult cats, the daily energy requirement is calculated by the formula DER = $1.2 \times$ RER. Actively breeding male and female cats have a slightly higher daily energy requirement, and the daily energy requirement is calculated by the formula DER = $1.6 \times$ RER. The daily energy requirement for breeding females and males can be found in Table 4.16.

Table 4.12. Daily energy requirement (DER) for lactating dogs with up to four puppies.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	155	53	3045	105	5084	157	6875
2	261	54	3088	106	5121	158	6908
3	353	55	3130	107	5157	159	6940
4	438	56	3173	108	5193	160	6973
5	518	57	3215	109	5229	161	7006
6	594	58	3258	110	5265	162	7038
7	667	59	3300	111	5301	163	7071
8	737	60	3342	112	5336	164	7104
9	805	61	3383	113	5372	165	7136
10	872	62	3425	114	5408	166	7168
11	936	63	3466	115	5443	167	7201
12	999	64	3507	116	5479	168	7233
13	1061	65	3548	117	5514	169	7265
14	1122	66	3589	118	5549	170	7298
15	1181	67	3630	119	5585	171	7330
16	1240	68	3670	120	5620	172	7362
17	1298	69	3711	121	5655	173	7394
18	1355	70	3751	122	5690	174	7426
19	1411	71	3791	123	5725	175	7458
20	1466	72	3831	124	5760	176	7490
21	1521	73	3871	125	5795	177	7522
22	1575	74	3911	126	5829	178	7554
23	1628	75	3950	127	5864	179	7585
24	1681	76	3990	128	5899	180	7617
25	1733	77	4029	129	5933	181	7649
26	1785	78	4068	130	5968	182	7681
27	1836	79	4107	131	6002	183	7712
28	1887	80	4146	132	6036	184	7744
29	1937	81	4185	133	6071	185	7775
30	1987	82	4224	134	6105	186	7807
31	2036	83	4262	135	6139	187	7838
32	2085	84	4301	136	6173	188	7870
33	2134	85	4339	137	6207	189	7901

Table 4.12. (cont.)

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
34	2182	86	4377	138	6241	190	7932
35	2230	87	4416	139	6275	191	7964
36	2278	88	4454	140	6309	192	7995
37	2325	89	4491	141	6342	193	8026
38	2372	90	4529	142	6376	194	8057
39	2419	91	4567	143	6410	195	8088
40	2465	92	4604	144	6443	196	8120
41	2511	93	4642	145	6477	197	8151
42	2557	94	4679	146	65100	198	8182
43	2603	95	4717	147	6544	199	8213
44	2648	96	4754	148	6577	200	8244
45	2693	97	4791	149	6610	205	8398
46	2738	98	4828	150	6644	210	8551
47	2782	99	4865	151	6677	215	8703
48	2827	100	4902	152	6710	220	8854
49	2871	101	4938	153	6743	225	9005
50	2915	102	4975	154	6776	230	9155
51	2958	103	5012	155	6809	240	9451
52	3002	104	5048	156	6842	250	9745

BW, body weight.

^aDER = 4 × RER (resting energy requirement).

Table 4.13. Daily energy requirement (DER) for lactating dogs with more than four puppies.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	233	53	4567	105	7626	157	10312
2	391	54	4632	106	7681	158	10362
3	530	55	4696	107	7735	159	10411
4	656	56	4760	108	7789	160	10460
5	777	57	4823	109	7843	161	10509
6	891	58	4887	110	7897	162	10558
7	1001	59	4950	111	7951	163	10607
8	1106	60	5012	112	8005	164	10655

Table 4.13. (cont.)

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
9	1208	61	5075	113	8058	165	10704
10	1307	62	5137	114	8112	166	10753
11	1404	63	5199	115	8165	167	10801
12	1499	64	5261	116	8218	168	10850
13	1592	65	5323	117	8271	169	10898
14	1683	66	5384	118	8324	170	10946
15	1772	67	5445	119	8377	171	10995
16	1860	68	5506	120	8430	172	11043
17	1947	69	5566	121	8482	173	11091
18	2032	70	5627	122	8535	174	11139
19	2116	71	5687	123	8587	175	11187
20	2199	72	5747	124	8640	176	11235
21	2281	73	5807	125	8692	177	11283
22	2362	74	5866	126	8744	178	11330
23	2442	75	5926	127	8796	179	11378
24	2521	76	5985	128	8848	180	11426
25	2600	77	6044	129	8900	181	11473
26	2677	78	6102	130	8951	182	11521
27	2754	79	6161	131	9003	183	11568
28	2830	80	6219	132	9054	184	11616
29	2906	81	6278	133	9106	185	11663
30	2980	82	6336	134	9157	186	11710
31	3055	83	6394	135	9208	187	11757
32	3128	84	6451	136	9259	188	11805
33	3201	85	6509	137	9310	189	11852
34	3274	86	6566	138	9361	190	11899
35	3346	87	6623	139	9412	191	11946
36	3417	88	6680	140	9463	192	11992
37	3488	89	6737	141	9514	193	12039
38	3559	90	6794	142	9564	194	12086
39	3629	91	6850	143	9615	195	12133
40	3698	92	6907	144	9665	196	12179
41	3767	93	6963	145	9715	197	12226
42	3836	94	7019	146	9766	198	12272

Table 4.13. (cont.)

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
43	3904	95	7075	147	9816	199	12319
44	3972	96	7131	148	9866	200	12365
45	4040	97	7186	149	9916	205	12596
46	4107	98	7242	150	9966	210	12826
47	4174	99	7297	151	10015	215	13055
48	4240	100	7352	152	10065	220	13282
49	4306	101	7408	153	10115	225	13507
50	4372	102	7462	154	10164	230	13732
51	4437	103	7517	155	10214	240	14177
52	4502	104	7572	156	10263	250	14618

BW, body weight.

^aDER = 6 × RER (resting energy requirement).

Table 4.14. Daily energy requirement (DER) for intact adult cats.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	54	7	233	13	371	19	494
2	91	8	258	14	393	20	513
3	124	9	282	15	414	21	532
4	153	10	305	16	434	22	551
5	181	11	328	17	454	23	570
6	208	12	350	18	474	24	588

BW, body weight.

^aDER = 1.4 × RER (resting energy requirement).

Table 4.15. Daily energy requirement (DER) for neutered adult cats.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	47	7	200	13	318	19	423
2	78	8	221	14	337	20	440
3	106	9	242	15	354	21	456
4	132	10	262	16	372	22	472
5	155	11	281	17	389	23	488
6	178	12	300	18	406	24	504

BW, body weight.

^aDER = 1.2 × RER (resting energy requirement).

Table 4.16. Daily energy requirement (DER) for breeding male and female cats.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	62	7	267	13	425	19	564
2	104	8	295	14	449	20	586
3	141	9	322	15	473	21	608
4	175	10	349	16	496	22	630
5	207	11	374	17	519	23	651
6	238	12	400	18	542	24	672

BW, body weight.

^aDER = $1.6 \times$ RER (resting energy requirement).

Table 4.17. Daily energy requirement (DER) for weight loss in cats.^a

BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal	BW (lb)	Daily kcal
1	39	7	167	13	265	19	353
2	65	8	184	14	280	20	366
3	88	9	201	15	295	21	380
4	110	10	218	16	310	22	394
5	130	11	234	17	324	23	407
6	149	12	250	18	339	24	420

BW, body weight.

^aDER = $1.0 \times$ RER (resting energy requirement).

■ Weight Loss

For weight loss to occur, energy expenditure must be greater than the energy intake. The daily requirements for adult cats that need to lose weight can be found in Table 4.17. The daily energy requirement for adult cats that need to lose weight is calculated by the formula $DER = 1.0 \times RER$.

■ Growth

Growing kittens require more daily energy than do adult cats to support bone, muscle, and tissue growth. Kittens up to 4 months of age have the highest energy requirement, as a considerable amount of growth is occurring during this period. The daily energy require-