

## Feed Requirements (MJME/day) for Growing Steers and Heifers

LW (kg)	Rate of Liveweight Gain (kgLW/day)				
	0	0.4	0.6	0.8	1.0
100	18	28	31	35	39
150	24	33	38	42	46
200	30	42	47	52	57
250	35	47	52	58	63
300	40	53	58	63	68
350	45	58	63	68	73
400	49	68	76	84	92
450	54	73	81	89	97
500	58	78	86	94	102

Assumes maintenance = 0.55 MJME/kg liveweight<sup>0.75</sup>

Add pregnancy requirement:

6th month of pregnancy – 6 MJME/day

7th month of pregnancy – 12 MJME/day

8th month of pregnancy – 24 MJME/day

9 month – 40 MJME/day

## Feed Requirements (MJME/day) for Milking Cows

LW (kg)	Production – KgMS/cow/day					
	1.0	1.2	1.4	1.6	1.8	2.0
350	117	131	146	160	175	189
400	122	136	151	165	180	194
450	126	140	155	169	184	198
500	131	145	160	174	189	203
550	135	149	164	178	193	207

Assumes maintenance = 0.55 MJME/kg liveweight<sup>0.75</sup>; 1 kgMS requires 72 MJME; Feed contains 11.5 MJME/kgDM

For walking add 2.0 MJME/km flat; 3.0 MJME/km rolling; 6.0 MJME/km hills. Add 22 MJME/cow/day for cows to gain 0.5 kgLW/day (about 0.5 cs/month). Subtract 18 MJME/cow/day if cows are losing 0.5 kgLW/day (about 0.5 cs/month).

## Feed Requirements (MJME/day) for Dry Cows

LW (kg)	Weeks before calving				
	12+	12	8	4	2
350	45	57	66	82	93
400	50	62	73	87	98
450	55	67	76	92	103
500	60	72	81	97	108
550	65	77	86	102	113

Assumes maintenance = 0.55 MJME/kg liveweight<sup>0.75</sup>; 1 kgMS requires 72 MJME; Feed contains 11.5 MJME/kgDM

Add 65 MJME/kg liveweight gain; For walking add 2.0 MJME/km flat; 3.0 MJME/km rolling; 6.0 MJME/km hills.

Add pregnancy requirement: 12 weeks before calving – 12 MJME/day, 8 weeks before calving – 21 MJME/day

4 weeks before calving – 37 MJME/day, 2 weeks before calving – 48 MJME/day