

Foodstuff	Dry matter (%)*	ME (MJ/kg DM)		Crude protein % DM	
		Average*	Tested range	Average*	Tested range
Low protein dry roughages					
Oaten hay	90	9.3	(8.5–9.5)	5.8	
Wheaten hay	90	8.0		6.0	
Pasture hay (mostly grass)	85–90	8.3		6.0	
Oat, barley or wheat straw	90	5.0	(4.5–5.5)	3.0	
Sorghum stubble	90	7.0	(6.5–8.0)	3.6	
Cottonseed hulls	90	5.15	(2.9–6.3)	7.7	(4.0–11.5)
Rice hulls	90	2.4		2.0–3.1	
Corn stubble	90	5.5	(4.5–6.5)	4.8	(2–7)
Soybean stubble	90	5.5	(4.0–6.5)	5.5	(4–6.5)
Peanut hulls	90	3.6		3.3	
Oat hulls	90	5.3	(5.3–5.4)	3.8	
Sorghum (failed crop)	90	9.0	(8.5–9.5)	7.4	
Peanut hay	90	8.5	(8.0–9.0)	9.3	(7.6–10.7)
Soybean hay (mature)	90	6.0	(5.5–6.5)	8.1	
Wheat stubble	90	5.1	(4.8–8.2)	–	
Barley stubble	90	5.5	(5.1–6.2)	–	
Rice stubble	90	5.7	(5.3–6.6)	–	
Oat stubble	90	4.6		–	
High-protein dry roughages					
Lucerne hay	90	8.5	(8–9.8)	15–20	
Clover hay	85–90	9.0	(8.3–10.9)	13	
Pasture hay (mostly clover)	85–90	8.3		11	
Cowpea and field pea	90	9.5		16	
Soybean hay (full pods)	90	9.5	(9–10)	13–14	
Soybean hay (75% pods)	90	8.5	(8–9)	17	
Low protein wet roughages					
Maize silage	25–30	8.5	(7.5–9.5)	6.9–9.0	
Sorghum silage	25–30	8.0	(8.0–8.5)	6.9–7.5	
Oat, wheat, barley or rye green fodder or silage (cut at flowering stage)	25–30	8.5	(8.3–8.7)	6.0–8.0	

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High-protein wet roughages

Lucerne green fodder	25	8.3		16	
Lucerne silage	25–30	8.4		15	
Pasture fodder (mixed grass & clover)	25	10.3		17.5	
Pasture silage (mixed grass & clover)	20	8.2		16	
Young oats, wheat, barley, rye, or millet grazing	25	9.3		10	

Grains

Maize	90	13.5	(13–14)	9.5	(9.0–10)
Grain sorghum	90	13		9	(5–11)
Wheat	90	13	(12.5–13.5)	12	(11–13)
Barley	90	13	(12.5–13)	11	(10–12)
Oats	90	10.5	(5–12.5)	10.5	(10–11)
Lupins		13		32	

Cereal grain by-products

Wheat pollard	90	11		15	
Wheat bran	90	12		15	
Oat bran	90	9		8.0	
Hominy	90	12.6		11	(10–12)
Rice bran	90	11		14	

Protein-rich concentrates

Soybean meal	90	12		50	
Safflower meal	90	11		40–55	
Peanut meal	90	11		42	
Cottonseed meal (decorticated)	90	10.5		28–43	
Linseed meal	90	11.5		30–35	
Sunflower meal	90	10.5		40–45	
Coconut meal (6% fat)	90	12.5		21	
Milk powder (cow's whole)	90	17		26.5	
Milk powder (cow's skimmed)	90	12.8	(12.6–13)	36	
Urea (46% nitrogen)	90	–		Equivalent to about 280	

Miscellaneous

Brewers grains (dry)	90	9.5		20	
Molasses	75	13		3.5	
Sheep and cattle nuts	90	11	(9–13)	15	