

Nutrient Requirements of the Goat

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Nutrient requirements of all livestock are based on the size of the animal, how active the animal is, the body growth rate, and/or the animal's level of milk production and fat content in milk produced. Maintenance requirements are for low levels of activity as when being fed in a dry lot situation and in these NRC estimated requirements include early pregnancy. When animals are on pasture activity increases and these the requirements are approximately 25% higher to account for this increased activity. Under extensive pasture or range conditions animal activity will increase even more and the maintenance level may need to be increased by 50 to 75%.

The values listed in these tables are adapted from "Nutrient Requirements of Domestic Animals No. 15 Nutrient Requirements of Goats", National Academy Press, 2101 Constitution Ave, N.W., Washington D.C. 20418.

Nutrient requirement of goats for maintenance.							
Body Wt.	DMI	TDN	CP	Ca	P	Vit A	Vit D
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	1000IU	IU
22	0.62	0.35	0.05	0.0022	0.0015	0.4	84
44	1.06	0.59	0.08	0.0022	0.0015	0.7	144
66	1.43	0.80	0.11	0.0044	0.0031	0.9	195
88	1.78	0.99	0.14	0.0044	0.0031	1.2	243
110	2.09	1.17	0.17	0.0066	0.0046	1.4	285
132	2.40	1.34	0.19	0.0066	0.0046	1.6	327
154	2.71	1.50	0.21	0.0088	0.0062	1.8	369
176	2.99	1.66	0.23	0.0088	0.0062	2.0	408
198	3.26	1.81	0.26	0.0088	0.0062	2.2	444
220	3.52	1.96	0.28	0.0110	0.0077	2.4	480

Additional nutritional requirement over maintenance for late pregnancy at all body weights.						
DMI	TDN	CP	Ca	P	Vit A	Vit D
lbs.	lbs.	lbs.	lbs.	lbs.	1000IU	IU
1.56	0.87	0.18	0.0044	0.0031	1.1	213

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Additional nutritional requirement over maintenance for growth at all body weights.							
Daily gain	DMI	TDN	CP	Ca	P	Vit A	Vit D
lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	1000IU	IU
0.11	0.40	0.22	0.03	0.0022	0.0015	0.3	54
0.22	0.79	0.44	0.06	0.0022	0.0015	0.5	108
0.33	1.19	0.66	0.09	0.0044	0.0031	0.8	162

Additional requirement over maintenance for milk production per lb. of milk at different levels of butter fat in the milk.							
%Fat in milk	DMI	TDN	CP	Ca	P	Vit. A	Vit. D
	lbs.	lbs.	lbs.	lbs.	lbs.	1000IU	IU
2.5	0.23	0.333	0.059	0.002	0.001	1.7	345
3.0	0.26	0.337	0.064	0.002	0.001	1.7	345
3.5	0.28	0.342	0.068	0.002	0.001	1.7	345
4.0	0.30	0.346	0.072	0.003	0.002	1.7	345
4.5	0.32	0.351	0.077	0.003	0.002	1.7	345
5.0	0.35	0.356	0.082	0.003	0.002	1.7	345
5.5	0.37	0.360	0.086	0.003	0.002	1.7	345
6.0	0.39	0.365	0.090	0.003	0.002	1.7	345

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