



Livestock Farming

Handout 9

Daily Nutrient Requirements for Maintenance, Growth and Fattening of Steers

Daily Nutrient Requirements for Maintenance, Growth and Fattening of Steers.

Live mass	ADG (kg/day)	Energy requirements in MJ ME:						CP (g)	DP (g)	Ca (g)	P (g)	Vit A '000 IU
		Energy concentration in MJ ME/kg DM of ration fed										
		8	9	10	11	12	13					
150	0.00	22	22	22	22	22	22	230	130	5	5	6
	0.25	29	29	28	27	27	27	460	270	13	11	8
		515	320	14	12	9						
		560	365	19	15	9						
		600	410	25	18	9						
		640	455	31	21	9						
1.25					58	56						
175	0.00	24	24	24	24	24	24	260	150	5	5	7
	0.25	32	31	30	30	29	29	485	285	12	11	8
		525	325	14	13	10						
		570	370	19	16	10						
		610	415	24	18	10						
		650	460	29	21	10						
1.25				66	63	60						
200	0.00	27	27	27	27	27	27	300	170	6	6	8
	0.25							510	300	10	10	12
		35	35	34	34	33	33	555	345	14	13	12
								610	395	19	16	13

Live mass	ADG (kg/day)	Energy requirements in MJ ME:						CP (g)	DP (g)	Ca (g)	P (g)	Vit A '000 IU
		Energy concentration in MJ ME/kg DM of ration fed										
		8	9	10	11	12	13					
	0.50	44	42	41	39	38	37	655	445	23	18	13
	0.75		53	50	48	46	45	700	495	27	20	13
	1.00			61	58	55	53					
	1.25				70	67	64	750	545	31	22	13
	1.50					81	77					
225	0.00	29	29	29	29	29	29	325	185	7	7	8
	0.25	37	37	36	35	35	34	525	310	11	11	13
	0.50	47	45	44	42	41	40	580	360	14	13	13
	0.75		56	53	51	49	48	645	420	18	16	13
	1.00			65	62	59	57	700	475	24	19	13
	1.25				75	71	68	745	530	28	22	13
	1.50					86	82	810	590	32	23	13
	1.50											
250	0.00	31	31	31	31	31	31	350	200	8	8	9
	0.25	40	39	38	38	37	36	570	330	12	12	14
	0.50	51	49	47	45	44	43	635	375	13	13	14
	0.75							715	430	18	16	14
	1.00							790	485	24	20	14

Live mass	ADG (kg/day)	Energy requirements in MJ ME:						CP (g)	DP (g)	Ca (g)	P (g)	Vit A '000 IU	
		Energy concentration in MJ ME/kg DM of ration fed											
		8	9	10	11	12	13						
	0.75		60	57	54	52	51	855	540	30	23	14	
	1.00			69	65	63	60						
	1.25				79	75	72	915	595	34	25	14	
	1.50					91	87						
300	0.00	36	36	36	36	36	36	405	230	9	9	10	
								595	345	13	13	16	
	0.25	46	45	44	44	43	43	660	390	16	16	16	
								735	440	19	18	16	
	0.50	57	55	53	51	50	49	805	495	24	21	16	
								875	550	28	23	16	
	0.75	72	66	64	61	59	57	925	600	33	27	16	
	1.00		81	77	73	70	67						
	1.25			93	88	83	80						
	1.50				107	101	96	965	655	37	30	16	
	1.75					124	112						
350	0.00	40	40	40	40	40	40	455	260	10	10	12	
								690	400	15	15	18	
	0.25	51	49	48	48	47	47	745	440	17	16	18	
								800	480	19	17	18	
	0.50	63	60	58	56	55	54	855	525	22	19	18	

Live mass	ADG (kg/day)	Energy requirements in MJ ME:						CP (g)	DP (g)	Ca (g)	P (g)	Vit A '000 IU
		Energy concentration in MJ ME/kg DM of ration fed										
		8	9	10	11	12	13					
	0.75	78	73	70	67	65	63	905	570	25	21	18
	1.00		89	84	80	77	74	945	615	30	26	18
	1.25			103	97	92	88					
	1.50				117	110	105	985	670	34	30	18
	1.75					135	128					
400	0.00	45	45	45	45	45	45	510	290	11	11	13
								715	415	15	15	19
	0.25	56	55	54	53	53	52	770	455	17	17	19
	0.50	70	67	65	63	61	60	850	510	19	18	19
	0.75	85	80	77	74	72	69	900	555	21	20	19
	1.00		99	93	89	85	82	950	600	24	22	19
	1.25			112	105	100	96					
	1.50				127	120	115	1030	700	30	26	19
	1.75					147	139					
450	0.00	49	49	49	49	49	49	545	310	12	12	14
								765	445	16	16	20
	0.25	61	60	59	58	57	56	840	495	18	18	20
								900	540	19	19	20

Live mass	ADG (kg/day)	Energy requirements in MJ ME:						CP (g)	DP (g)	Ca (g)	P (g)	Vit A '000 IU
		Energy concentration in MJ ME/kg DM of ration fed										
		8	9	10	11	12	13					
	0.50	75	72	70	68	67	66	950	585	20	20	20
	0.75	91	87	83	80	78	76	1000	630	24	23	20
	1.00		106	100	95	91	88	1040	675	26	24	20
	1.25			120	114	108	104					
	1.50				137	130	124	1075	730	28	25	20
	1.75					158	150					
	500	0.00	54	54	54	54	54	54	595	340	13	13
	0.25	67	65	64	63	62	62	810	470	17	17	23
	0.50	82	79	76	74	73	72	890	525	18	18	23
	0.75	100	94	90	87	84	82	940	565	19	19	23
	1.00		114	108	103	99	95	990	610	20	20	23
	1.25			129	123	117	112	1030	650	22	22	23
	1.50				147	140	133	1060	690	24	24	23
	1.75					170	161	1105	750	26	26	23