

Ishrana koza

Obrasci, normativi, formulari i tabele

1. Potrebe dojnih koza

Jaradi na sisi	TM, kg	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
1	30	4.03	1.2	0.6	138	5.3	3.3
	40	3.70	1.5	0.8	166	5.7	3.7
	50	3.46	1.7	0.9	191	6.0	4.0
	60	3.30	2.0	1.0	216	6.4	4.3
	70	3.16	2.2	1.2	238	6.7	4.7
	80	3.04	2.4	1.3	260	7.0	5.0
	90	2.94	2.6	1.4	281	7.3	5.3
2	40	4.93	2.0	1.0	264	9.5	5.9
	50	4.60	2.3	1.2	304	9.9	6.3
	60	4.35	2.6	1.4	341	10.3	6.7
	70	4.16	2.9	1.5	376	10.8	7.1
	80	3.98	3.2	1.7	408	11.1	7.5
	90	3.84	3.5	1.8	441	11.5	7.9
3	50	4.58	2.3	1.5	394	13.0	7.8
	60	4.32	2.6	1.7	441	13.4	8.2
	70	4.11	2.9	1.9	485	13.8	8.6
	80	4.93	3.9	2.1	558	15.3	10.1
	90	4.74	4.3	2.3	599	15.8	10.5

2. Muzne koze u ranoj laktaciji

Mleko, kg/dan	TM, kg	SM, % TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
4.6 - 6.4	50	4.56	2.28	1.82	485	16	9
	60	4.30	2.57	2.05	541	16	10
	70	4.91	3.43	2.28	617	18	11
	80	4.70	3.75	2.48	670	18	11
	90	4.51	4.05	2.68	718	19	12
5.8 - 8.0	50	5.32	2.65	2.11	591	20	11
	60	5.00	2.99	2.38	659	20	12
	70	4.76	3.32	2.63	722	21	12
	80	4.54	3.62	2.88	782	21	13
	90	4.37	3.92	3.12	840	21	13
7.0 - 9.6	50	6.06	3.02	2.40	696	23	13
	60	5.70	3.41	2.71	776	24	14
	70	5.41	3.78	3.00	851	24	14
	80	5.18	4.13	3.28	921	25	15
	90	4.97	4.46	3.55	989	25	15

3. Muzne koze u sredini laktacije

Mleko, kg/dan	TM, kg	SM, % TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
3.3-4.6	50	5.36	2.67	1.78	424	17	10
	60	5.00	2.99	1.99	471	17	10
	70	5.90	4.12	2.19	549	19	12
	80	5.61	4.48	2.38	594	19	12
	90	5.37	4.82	2.55	636	20	13
4.2-5.7	50	5.20	2.59	2.07	493	20	11
	60	5.80	3.47	2.31	570	21	12
	70	5.47	3.82	2.53	624	21	13
	80	5.19	4.14	2.74	674	22	13
	90	4.97	4.46	2.95	720	22	14
5.0-5.5	50	5.92	2.95	2.35	579	23	13
	60	5.50	3.29	2.62	642	24	14
	70	5.19	3.62	2.87	702	24	14
	80	5.90	4.71	3.12	788	26	16
	90	5.63	5.06	3.35	843	26	16

4. Muzne koze na kraju laktacije

Mleko, kg/dan	TM, kg	SM, % TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
2.0-2.8	50	5.48	2.73	1.45	335	17	10
	60	5.13	3.07	1.63	374	17	10
	70	4.86	3.39	1.80	411	18	11
	80	4.63	3.69	1.96	445	18	11
	90	4.44	3.99	2.12	479	18	12
2.5-3.5	50	6.28	3.13	1.66	400	20	12
	60	5.87	3.51	1.87	447	21	13
	70	5.54	3.87	2.05	489	21	13
	80	5.28	4.21	2.24	529	22	13
	90	5.04	4.53	2.40	567	22	14
3.0-4.1	50	5.64	2.81	1.87	437	23	13
	60	6.58	3.94	2.10	518	25	15
	70	6.21	4.34	2.30	567	25	15
	80	5.90	4.71	2.49	612	26	16
	90	5.64	5.07	2.68	656	26	16

5. Zasušene koze pre sezone sjarivanja

TM, kg	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
20	2.95	0.59	0.31	40	1.3	0.9
30	2.67	0.80	0.43	54	1.6	1.2
40	2.50	1.00	0.53	67	1.9	1.5
50	2.36	1.18	0.62	79	2.1	1.7
60	2.25	1.35	0.72	90	2.4	2.0
70	2.17	1.52	0.80	101	2.6	2.2
80	2.10	1.68	0.89	112	2.8	2.4
90	2.03	1.83	0.97	122	3.0	2.6

6. Potrebe koza tokom sezone sjarivanja

TM, kg	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
20	3.25	0.65	0.35	44	1.4	1.0
30	2.93	0.88	0.47	59	1.7	1.3
40	2.75	1.10	0.58	73	2.0	1.6
50	2.60	1.30	0.69	87	2.3	1.9
60	2.48	1.49	0.79	99	2.6	2.1
70	2.39	1.67	0.88	111	2.8	2.4
80	2.30	1.84	0.98	123	3.1	2.6
90	2.23	2.01	1.07	134	3.3	2.9

7. Potrebe koza u niskoj sjarnosti

Broj jaradi	TM, kg	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
1	20	3.50	0.70	0.37	62	3.4	1.8
	30	3.13	0.94	0.50	81	3.8	2.1
	40	2.88	1.15	0.61	98	4.1	2.4
	50	2.70	1.35	0.72	114	4.3	2.7
	60	2.57	1.54	0.82	129	4.6	3.0
	70	2.46	1.72	0.91	143	4.9	3.2
	80	2.36	1.89	1.00	167	5.1	3.4
	90	2.29	2.06	1.09	170	5.3	3.7
2	20	3.05	0.61	0.40	67	4.9	2.3
	30	3.33	1.00	0.53	94	5.4	2.8
	40	3.08	1.23	0.65	113	5.7	3.1
	50	2.88	1.44	0.76	131	6.0	3.4
	60	2.73	1.64	0.87	148	6.3	3.7
	70	2.61	1.83	0.97	164	6.6	3.9
	80	2.53	2.02	1.07	180	6.8	4.2
	90	2.43	2.19	1.16	195	7.0	4.4
3	30	3.47	1.04	0.55	101	6.8	3.4
	40	3.20	1.28	0.68	123	7.1	3.7
	50	2.98	1.49	0.79	141	7.4	4.0
	60	2.83	1.70	0.90	159	7.7	4.3
	70	2.70	1.89	1.00	176	8.0	4.5
	80	2.60	2.08	1.10	193	8.3	4.8
	90	2.52	2.27	1.20	209	8.5	5.1

8. Potrebe koza u visokoj sjarnosti

Broj jaradi	TM, kg	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
1	20	3.00	0.60	0.48	82	3.3	1.7
	30	3.17	0.95	0.63	112	3.8	2.2
	40	2.88	1.15	0.76	134	4.1	2.4
	50	3.34	1.67	0.89	166	4.8	3.1
	60	3.15	1.89	1.00	187	5.1	3.4
	70	3.01	2.11	1.12	206	5.4	3.7
	80	2.89	2.31	1.22	224	5.7	4.0
	90	2.78	2.49	1.32	240	5.9	4.3
2	20	3.40	0.68	0.54	105	5.0	2.4
	30	2.97	0.89	0.71	133	5.2	2.7
	40	3.20	1.28	0.85	165	5.8	3.2
	50	2.98	1.49	0.99	189	6.1	3.5
	60	2.82	1.69	1.12	213	6.4	3.7
	70	2.67	1.87	1.24	233	6.6	4.0
	80	2.58	2.06	1.37	255	6.9	4.3
	90	3.10	2.78	1.48	297	7.9	5.2
3	30	3.13	0.94	0.75	147	6.7	3.3
	40	2.85	1.14	0.91	176	7.0	3.5
	50	2.64	1.32	1.05	200	7.2	3.8
	60	2.97	1.78	1.18	235	7.8	4.4
	70	2.83	1.98	1.31	258	8.1	4.7
	80	2.71	2.17	1.44	281	8.4	4.9
	90	2.62	2.36	1.56	304	8.6	5.2

9. Potrebe podmladka – ženska grla i kastrati

TM, kg	Prirast, g/d	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
10	0	3.00	0.299	0.200	26	0.90	0.50
	25	3.50	0.349	0.239	36	1.60	0.80
	100	4.00	0.399	0.349	69	3.49	1.60
	150	4.80	0.479	0.429	90	4.79	2.20
	200	5.60	0.559	0.509	112	6.19	2.69
15	0	3.60	0.539	0.269	35	1.30	0.90
	25	3.07	0.459	0.309	46	1.80	1.00
	100	3.27	0.489	0.419	78	3.59	1.70
	150	3.80	0.569	0.499	100	4.99	2.30
	200	4.33	0.649	0.579	121	6.29	2.79
20	0	3.40	0.679	0.339	43	1.40	1.00
	25	3.80	0.758	0.369	54	2.20	1.40
	100	3.65	0.728	0.489	86	3.99	2.00
	150	3.25	0.649	0.569	108	5.09	2.39
	200	3.65	0.728	0.639	130	6.39	2.99
	249	4.05	0.808	0.718	151	7.68	3.49
25	0	3.20	0.798	0.399	51	1.60	1.20
	25	3.52	0.878	0.439	62	2.30	1.50
	100	3.28	0.818	0.549	94	4.09	2.20
	150	3.76	0.938	0.629	116	5.49	2.79
	200	3.20	0.798	0.699	137	6.49	3.09
	249	3.52	0.878	0.778	159	7.78	3.59
30	0	3.07	0.918	0.459	59	1.80	1.40
	25	3.33	0.998	0.489	69	2.49	1.70
	100	3.03	0.908	0.609	102	4.19	2.30
	150	3.40	1.018	0.679	123	5.59	2.89
	200	3.80	1.138	0.758	145	6.99	3.49
	249	3.17	0.948	0.838	166	7.88	3.69
	299	3.43	1.028	0.908	188	9.28	4.29
35	0	2.94	1.028	0.509	66	1.90	1.50
	25	3.17	1.108	0.549	77	2.69	1.90
	100	3.89	1.357	0.659	109	4.79	2.89
	150	3.17	1.108	0.738	130	5.69	2.99
	200	3.49	1.217	0.818	152	7.09	3.59
	249	3.83	1.337	0.888	174	8.48	4.19
	299	3.14	1.098	0.968	195	9.38	4.39
40	0	2.85	1.138	0.559	73	2.10	1.70
	25	3.05	1.217	0.599	83	2.79	2.00
	100	3.68	1.467	0.718	116	4.99	2.99
	150	2.98	1.188	0.788	137	5.79	3.09
	200	3.25	1.297	0.868	159	7.18	3.69
	249	3.55	1.417	0.948	181	8.58	4.39
	299	3.85	1.537	1.018	202	9.98	4.99

10. Potrebe podmladka – mladi jarčevi za priplod

TM, kg	Prirast, g/d	SM, %TM	SM, kg	TDN, kg	UP, g	Ca, g	P, g
10	0	3.50	0.349	0.230	26	1.00	0.60
	25	3.20	0.319	0.269	36	1.60	0.80
	100	4.40	0.439	0.389	69	3.59	1.60
	150	5.20	0.519	0.459	90	4.89	2.20
	200	6.00	0.599	0.539	112	6.19	2.79
15	0	3.13	0.469	0.309	35	1.20	0.80
	25	3.53	0.529	0.349	46	1.80	1.10
	100	3.60	0.539	0.469	78	3.69	1.80
	150	4.13	0.619	0.539	100	4.99	2.39
	200	4.67	0.699	0.619	121	6.39	2.89
20	0	3.95	0.788	0.389	43	1.60	1.20
	25	3.20	0.639	0.429	54	2.00	1.20
	100	3.15	0.629	0.539	86	3.79	1.90
	150	3.55	0.709	0.619	108	5.19	2.49
	200	3.95	0.788	0.699	130	6.49	2.99
	249	4.35	0.868	0.768	151	7.78	3.59
25	0	3.72	0.928	0.459	51	1.80	1.40
	25	2.96	0.738	0.499	62	2.10	1.40
	100	3.68	0.918	0.619	94	4.19	2.30
	150	3.20	0.798	0.689	116	5.29	2.59
	200	3.52	0.878	0.768	137	6.59	3.19
	249	3.84	0.958	0.838	159	7.88	3.59
30	0	3.57	1.068	0.529	59	2.00	1.60
	25	3.83	1.148	0.569	69	2.69	1.90
	100	3.40	1.018	0.679	102	4.39	2.39
	150	3.77	1.128	0.758	123	5.69	2.99
	200	3.20	0.958	0.838	145	6.69	3.29
	249	3.47	1.038	0.908	166	8.08	3.79
	299	3.73	1.118	0.988	188	9.38	4.39
35	0	3.43	1.197	0.589	66	2.20	1.70
	25	3.66	1.277	0.629	77	2.89	2.10
	100	3.20	1.118	0.748	109	4.49	2.59
	150	3.51	1.227	0.818	130	5.89	3.19
	200	3.86	1.347	0.898	152	7.28	3.79
	249	3.20	1.118	0.978	174	8.18	3.99
	299	3.43	1.197	1.048	195	9.48	4.49
40	0	3.30	1.317	0.659	73	2.30	1.90
	25	3.53	1.407	0.699	83	3.09	2.30
	100	3.03	1.207	0.808	116	4.59	2.69
	150	3.30	1.317	0.888	137	5.99	3.29
	200	3.60	1.437	0.958	159	7.38	3.89
	249	3.90	1.557	1.038	181	8.78	4.49
	299	3.20	1.277	1.118	202	9.58	4.59

Obrazac 1. Tablica hraniva

Hranivo	SM, %	TDN, %SM	UP, %SM	Ca, %SM	P, %SM
Seno lucerke, neosredno pred cvetanje	90.00	59.00	19.00	1.41	0.26
Seno lucerke, početak cvetanja	89.00	58.00	17.00	1.40	0.24
Seno lucerke, procvetalo	88.00	54.00	16.00	1.20	0.23
Seno lucerke, potpuno procvetalo	88.00	50.00	13.00	1.18	0.19
Travno seno	88.00	58.00	10.00	0.60	0.21
Livadsko seno	90.00	50.00	7.00	0.61	0.18
Slama, pšenična	91.00	42.00	3.00	0.16	0.05
Lucerka, silaža	30.00	55.00	18.00	1.40	0.29
Kukuruz, silaža	34.00	72.00	8.00	0.28	0.23
Travna silaža	30.00	61.00	11.00	0.70	0.24
Kukuruz, zrno	88.00	88.00	9.00	0.02	0.30
Kukuruz, mleveni klip sa zrnom	87.00	82.00	9.00	0.06	0.28
Ječam, zrno	89.00	84.00	12.00	0.06	0.38
Ovas, zrno	89.00	76.00	13.00	0.05	0.41
Raž, zrno	89.00	82.00	12.00	0.07	0.39
Tritikale, zrno	89.00	85.00	14.00	0.07	0.39
Suvi repin rezanac	91.00	75.00	11.00	0.65	0.08
Sojina sačma, 44% UP	91.00	84.00	49.00	0.38	0.71
Sojina sačma, 49% UP	91.00	87.00	54.00	0.28	0.71
Suncokretova sačma	92.00	65.00	38.00	0.58	0.27
Puonomasna soja, zrno	88.00	93.00	40.00	0.27	0.64
Urea	99.00	0.00	263.00	0.00	0.00
Dikalcijum fosfat	96.00	0.00	0.00	23.30	18.00
Stočna kreda	98.00	0.00	0.00	34.00	0.02

Obrazac 2. Balansiranje obroka

Hranivo	Kg, dan	SM, kg	TDN, kg	UP, g	Ca, g	P, g
Seno lucerke, neosredno pred cvetanje						
Seno lucerke, početak cvetanja						
Seno lucerke, procvetalo						
Seno lucerke, potpuno procvetalo						
Travno seno						
Livadsko seno						
Slama, pšenična						
Lucerka, silaža						
Kukuruz, silaža						
Travna silaža						
Kukuruz, zrno						
Kukuruz, mleveni klip sa zrnom						
Ječam, zrno						
Ovas, zrno						
Raž, zrno						
Tritikale, zrno						
Suvi repin rezanac						
Sojina sačma, 44% UP						
Sojina sačma, 49% UP						
Suncokretova sačma						
Puonomasna soja, zrno						
Urea						
Dikalcijum fosfat						
Stočna kreda						
UKUPNO						

Obrazac 3. Balans obroka za koze

Potrebe	SM, kg	TDN, kg	UP, g	Ca, g	P, g
POTREBE(a)					
STANJE(b)					
BALANS(b/a)					