

Cobb 500 Broiler Performance & Nutrition Supplement

Broiler Performance

Age Days	Weight For Age						Average Daily Gain					
	As Hatched		Female		Male		As Hatched		Female		Male	
	g	lb	g	lb	g	lb	g	lb	g	lb	g	lb
0	41	0.09	41	0.09	41	0.09						
7	164	0.36	158	0.35	170	0.37	23.4	0.052	22.6	0.050	24.3	0.054
14	430	0.95	411	0.91	449	0.99	30.7	0.068	29.4	0.065	32.1	0.071
21	843	1.86	801	1.77	885	1.95	40.1	0.088	38.1	0.084	42.1	0.093
28	1397	3.08	1316	2.90	1478	3.26	49.9	0.110	47.0	0.104	52.8	0.116
35	2017	4.45	1879	4.14	2155	4.75	57.6	0.127	53.7	0.118	61.6	0.136
42	2626	5.79	2412	5.32	2839	6.26	62.5	0.138	57.4	0.127	67.6	0.149
49	3177	7.01	2867	6.32	3486	7.69	64.8	0.143	58.5	0.129	71.1	0.157
56	3644	8.04	3235	7.13	4054	8.94	65.1	0.144	57.8	0.127	72.4	0.160

Age Days	Cumulative Feed Conversion			Cumulative Feed Consumption					
	As Hatched	Female	Male	As Hatched		Female		Male	
				g	lb	g	lb	g	lb
0									
7	0.856	0.876	0.836	140	0.31	138	0.30	142	0.31
14	1.059	1.071	1.047	455	1.00	440	0.97	470	1.04
21	1.261	1.280	1.243	1063	2.34	1025	2.26	1100	2.43
28	1.446	1.475	1.417	2020	4.45	1941	4.28	2095	4.62
35	1.611	1.653	1.569	3249	7.16	3106	6.85	3381	7.46
42	1.760	1.820	1.700	4621	10.19	4389	9.68	4827	10.64
49	1.902	1.988	1.817	6043	13.32	5700	12.57	6333	13.96
56	2.045	2.156	1.927	7451	16.43	6973	15.38	7808	17.22

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Broiler Performance & Nutrition Supplement

Cobb500™

broiler

cobb-vantress.com



Introduction

This supplement presents broiler performance targets for your Cobb 500 broilers, together with recommendations on nutritional specifications designed to help achieve these targets.

Broiler performance varies tremendously from country to country, these targets are based on a combination of field performance and experience from around the world. The growth rates shown are the targets for achieving cost-efficient performance.

The recommendations present formulations balanced to suit your Cobb 500 broiler. Higher nutrient density rations are being promoted in some regions to benefit specific breeds, but this is not the approach for the Cobb 500 broiler.

The key micronutrients in particular are well known for their effect on the development and mineralization of bone. It is essential that adequate levels of these are presented to the bird throughout their development. Supplementation of compound rations with whole or cracked whole wheat can significantly deplete levels of calcium and phosphorus. This factor should be carefully considered when calculating mineral levels for compound diets.

Quality and availability of raw materials may require nutrient levels to be adjusted. Formulations may need to be 'fine tuned' to suit your specific requirements and environment.

Cobb recommends the use of appropriate light control programs to help manage Cobb 500 broilers to achieve the best economic performance. Advice on implementing these can be found in the Cobb Broiler Management Guide.

Please contact your local Cobb technical representative to help develop a program designed specifically to suit your own local conditions based on the advice and information contained in this supplement and the main Cobb Broiler Management Guide.

Broiler Nutrition

Recommended Broiler Feed Formulation					
		Starter	Grower	Finisher 1	Finisher 2
FEEDING AMOUNT/bird		250 g	1000 g		
FEEDING PERIOD days		0 - 10	11 - 22	23 - 42	42 +
Crude Protein	%	21.00	19.00	18.00	17.00
Metabolizable Energy	Kcal/lb Kcal/kg	1358 2988	1401 3083	1444 3176	1444 3176
Lysine	%	1.20	1.10	1.05	1.00
Digestible Lysine	%	1.08	0.99	0.95	0.90
Methionine	%	0.46	0.44	0.43	0.41
Digestible Methionine	%	0.41	0.40	0.39	0.37
Met + Cys	%	0.89	0.84	0.82	0.78
Digestible Met + Cys	%	0.80	0.75	0.74	0.70
Tryptophan	%	0.20	0.19	0.19	0.18
Threonine	%	0.79	0.74	0.72	0.69
Arginine	%	1.26	1.17	1.13	1.08
Calcium	%	1.00	0.96	0.90	0.85
Available Phosphorus	%	0.50	0.48	0.45	0.42
Sodium	%	0.22	0.19	0.19	0.18
Chloride	%	0.20	0.20	0.20	0.20
Cal: Protein Ratio		142	162	176	187

Broiler Nutrition

Supplementary levels of Vitamins and Trace elements (per tonne)				
		Starter	Grower	Finisher 1/2
Vitamin A (Maize diets)	(MIU)	13	11	10
Vitamin A (Wheat diets)		14	12	11
Vitamin D3	(MIU)	5	5	5
Vitamin E	(KIU)	80	60	50
Vitamin K	(g)	4	3	3
Vitamin B1 (thiamine)	(g)	4	2	2
Vitamin B2 (riboflavin)	(g)	9	8	8
Vitamin B6 (pyridoxine)	(g)	4	4	3
Vitamin B12	(mg)	20	15	15
Biotin (Maize Diets)	(mg)	150	120	120
Biotin (Wheat Diets)		200	200	180
Choline	(g)	400	400	350
Folic Acid	(g)	2	2	1.5
Nicotinic Acid	(g)	60	50	50
Pantothenic Acid	(g)	15	12	12
Manganese	(g)	100	100	100
Zinc	(g)	100	100	100
Iron	(g)	40	40	40
Copper	(g)	15	15	15
Iodine	(g)	1	1	1
Selenium	(g)	0.3	0.3	0.3

MIU = million international units
 KIU = thousand international units
 g = grams
 mg = milligrams

Supplementary levels of trace elements should always be reviewed to ensure total levels do not exceed those set in local legislation (e.g. EU 1334/2003)