

Broiler
Performance
& Nutrition
Supplement

CobbAvian48™

cobb-vantress.com



broiler

Introduction

This supplement presents broiler performance targets for your Cobb Avian48 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 Avian48 broiler. Higher nutrient density rations are being promoted in some regions to benefit specific breeds, but this is not the approach for Cobb broilers.

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 micronutrient 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 Avian48 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.

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AS HATCHED

Age days	Weight for Age	Average Daily Gain	Cumulative Feed Conversion	Daily Feed Consumption	Cumulative Feed Consumption
0	41				
1	50				
2	61				
3	76				
4	93				
5	112				
6	135				
7	160	22.9	0.855		137
8	188	23.5	0.887	30	167
9	219	24.4	0.919	35	202
10	253	25.3	0.951	39	241
11	290	26.4	0.982	44	285
12	330	27.5	1.013	49	335
13	373	28.7	1.043	55	389
14	419	29.9	1.073	60	450
15	468	31.2	1.103	66	516
16	519	32.5	1.132	72	588
17	574	33.7	1.161	78	666
18	631	35.0	1.189	84	750
19	691	36.3	1.218	91	841
20	753	37.7	1.245	96	938
21	818	39.0	1.273	104	1041
22	885	40.2	1.300	110	1151
23	955	41.5	1.327	117	1268
24	1027	42.8	1.353	122	1390
25	1102	44.1	1.379	129	1519
26	1178	45.3	1.405	136	1655
27	1256	46.5	1.430	141	1796
28	1336	47.7	1.455	148	1944
29	1418	48.9	1.480	154	2098
30	1501	50.0	1.504	159	2257
31	1585	51.1	1.528	165	2422
32	1671	52.2	1.552	171	2593
33	1757	53.3	1.575	175	2768
34	1845	54.3	1.598	180	2948
35	1933	55.2	1.621	185	3133
36	2021	56.1	1.644	190	3323
37	2110	57.0	1.666	192	3515
38	2198	57.9	1.688	196	3711
39	2287	58.6	1.710	199	3910
40	2374	59.4	1.731	200	4110
41	2462	60.0	1.752	202	4313
42	2548	60.7	1.773	204	4517
43	2633	61.2	1.794	206	4723
44	2716	61.7	1.814	204	4927
45	2797	62.2	1.834	204	5130
46	2877	62.5	1.854	203	5334
47	2954	62.9	1.874	202	5536
48	3028	63.1	1.893	197	5733
49	3100	63.3	1.912	194	5927

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FEMALES

Age days	Weight for Age	Average Daily Gain	Cumulative Feed Conversion	Daily Feed Consumption	Cumulative Feed Consumption
0	41				
1	49				
2	60				
3	74				
4	90				
5	109				
6	131				
7	155	22.1	0.875		136
8	182	22.8	0.904	29	165
9	212	23.6	0.934	33	198
10	245	24.5	0.965	38	236
11	280	25.5	0.995	43	279
12	319	26.6	1.025	48	327
13	359	27.7	1.055	53	379
14	403	28.8	1.085	58	437
15	449	29.9	1.116	64	501
16	498	31.1	1.146	69	570
17	549	32.3	1.175	75	645
18	602	33.5	1.204	80	725
19	658	34.7	1.234	87	812
20	717	35.8	1.262	92	904
21	777	37.0	1.292	100	1004
22	840	38.2	1.320	104	1108
23	904	39.3	1.348	110	1219
24	970	40.4	1.376	117	1335
25	1039	41.5	1.403	122	1457
26	1109	42.6	1.431	129	1586
27	1180	43.7	1.457	133	1719
28	1253	44.7	1.484	140	1859
29	1327	45.8	1.511	146	2005
30	1402	46.7	1.537	150	2155
31	1478	47.7	1.562	154	2309
32	1556	48.6	1.588	161	2470
33	1633	49.5	1.613	164	2634
34	1711	50.3	1.638	169	2803
35	1790	51.1	1.663	173	2977
36	1869	51.9	1.689	179	3156
37	1947	52.6	1.713	179	3336
38	2026	53.3	1.737	183	3518
39	2103	53.9	1.762	188	3706
40	2181	54.5	1.785	186	3892
41	2257	55.0	1.809	190	4083
42	2332	55.5	1.833	192	4275
43	2406	55.9	1.857	193	4468
44	2478	56.3	1.880	191	4659
45	2548	56.6	1.904	193	4852
46	2617	56.9	1.928	193	5045
47	2682	57.1	1.952	191	5236
48	2746	57.2	1.975	187	5423
49	2806	57.3	1.998	184	5606

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MALES

Age days	Weight for Age	Average Daily Gain	Cumulative Feed Conversion	Daily Feed Consumption	Cumulative Feed Consumption
0	41				
1	51				
2	63				
3	78				
4	95				
5	116				
6	139				
7	165	23.6	0.835		138
8	194	24.3	0.870	31	169
9	226	25.2	0.904	36	205
10	262	26.2	0.937	41	245
11	300	27.3	0.969	46	291
12	342	28.5	1.001	51	342
13	387	29.7	1.031	56	399
14	435	31.1	1.061	63	461
15	486	32.4	1.090	68	530
16	540	33.8	1.118	74	604
17	598	35.2	1.147	82	686
18	658	36.6	1.174	87	773
19	722	38.0	1.202	95	868
20	788	39.4	1.228	101	968
21	858	40.9	1.254	108	1076
22	930	42.3	1.280	115	1191
23	1005	43.7	1.306	122	1313
24	1083	45.1	1.330	128	1441
25	1163	46.5	1.355	136	1576
26	1246	47.9	1.379	142	1718
27	1331	49.3	1.403	149	1867
28	1418	50.7	1.426	155	2022
29	1507	52.0	1.449	162	2184
30	1598	53.3	1.471	167	2351
31	1691	54.5	1.494	175	2526
32	1785	55.8	1.516	180	2706
33	1881	57.0	1.537	184	2891
34	1977	58.2	1.558	190	3081
35	2075	59.3	1.579	195	3276
36	2173	60.4	1.599	199	3475
37	2272	61.4	1.619	203	3678
38	2371	62.4	1.639	207	3885
39	2469	63.3	1.658	209	4094
40	2568	64.2	1.677	212	4306
41	2666	65.0	1.695	212	4519
42	2763	65.8	1.713	214	4733
43	2859	66.5	1.731	216	4949
44	2953	67.1	1.748	214	5163
45	3046	67.7	1.764	211	5374
46	3137	68.2	1.780	210	5584
47	3225	68.6	1.796	209	5793
48	3311	69.0	1.811	203	5996
49	3394	69.3	1.826	200	6197

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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	%	22.00	20.00	19.00	17.50
Metabolizable Energy	MJ/kg Kcal/kg	12.51 2990	12.92 3090	13.29 3176	13.42 3208
Lysine	%	1.25	1.20	1.12	1.07
Digestible Lysine	%	1.10	1.06	0.99	0.95
Methionine	%	0.52	0.51	0.50	0.48
Digestible Methionine	%	0.47	0.45	0.45	0.43
Met + Cys	%	0.94	0.93	0.92	0.88
Digestible Met + Cys	%	0.82	0.81	0.81	0.77
Tryptophan	%	0.20	0.20	0.20	0.19
Threonine	%	0.83	0.82	0.79	0.75
Arginine	%	1.32	1.29	1.22	1.17
Calcium	%	1.00	0.96	0.90	0.90
Available Phosphorus	%	0.50	0.48	0.45	0.45
Sodium	%	0.20	0.17	0.16	0.16
Chloride	%	0.20	0.20	0.20	0.20
Linoleic Acid	%	1.25	1.25	1.00	1.00
Cal: Protein Ratio		136	154	167	183

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)

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