

**Broiler  
Performance  
& Nutrition  
Supplement**

**Cobb500™**

broiler

[cobb-vantress.com](http://cobb-vantress.com)



## Introduction

This supplement presents broiler performance and yield targets for your Cobb500 broilers, together with recommendations on nutritional specifications designed to help achieve these targets.

Broiler performance varies from country to country; these targets are based on a combination of field performance results and experience from around the world. The performance data included in this supplement is a blended combination from both the Cobb Male and the CobbMX male, and actual flock performance attained may be different than the values shown in this manual due to individual male line traits. The growth rates shown are the targets for achieving cost-efficient performance.

The performance objectives in this supplement are displayed in both metric and imperial configurations:

Metric

Imperial

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.

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

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.

# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - metric

AS HATCHED						
Age days	Weight for Age	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	42					
1	52	10				
2	66	14				
3	81	15				
4	100	19				
5	122	22				
6	148	26				
<b>7</b>	<b>177</b>	<b>29</b>	<b>25.3</b>	<b>0.847</b>		<b>150</b>
8	208	31	26.0	0.865	30	180
9	242	34	26.9	0.888	35	215
10	279	37	27.9	0.914	40	255
11	320	41	29.1	0.938	45	300
12	364	44	30.3	0.962	50	350
13	410	46	31.5	0.988	55	405
<b>14</b>	<b>459</b>	<b>49</b>	<b>32.8</b>	<b>1.013</b>	<b>60</b>	<b>465</b>
15	511	52	34.1	1.039	66	531
16	567	56	35.4	1.063	72	603
17	626	59	36.8	1.088	78	681
18	688	62	38.2	1.112	84	765
19	753	65	39.6	1.135	90	855
20	821	68	41.1	1.158	96	951
<b>21</b>	<b>891</b>	<b>70</b>	<b>42.4</b>	<b>1.182</b>	<b>102</b>	<b>1053</b>
22	964	73	43.8	1.205	109	1162
23	1039	75	45.2	1.230	116	1278
24	1115	76	46.5	1.257	123	1401
25	1193	78	47.7	1.283	130	1531
26	1272	79	48.9	1.311	137	1668
27	1353	81	50.1	1.339	144	1812
<b>28</b>	<b>1436</b>	<b>83</b>	<b>51.3</b>	<b>1.367</b>	<b>151</b>	<b>1963</b>
29	1521	85	52.4	1.394	158	2121
30	1608	87	53.6	1.422	165	2286
31	1697	89	54.7	1.448	172	2458
32	1788	91	55.9	1.475	179	2637
33	1880	92	57.0	1.502	186	2823
34	1973	93	58.0	1.529	193	3016
<b>35</b>	<b>2067</b>	<b>94</b>	<b>59.1</b>	<b>1.556</b>	<b>200</b>	<b>3216</b>
36	2162	95	60.1	1.581	202	3418
37	2257	95	61.0	1.604	203	3621
38	2352	95	61.9	1.627	205	3826
39	2447	95	62.7	1.648	206	4032
40	2542	95	63.6	1.668	208	4240
41	2637	95	64.3	1.687	209	4449
<b>42</b>	<b>2732</b>	<b>95</b>	<b>65.0</b>	<b>1.705</b>	<b>210</b>	<b>4659</b>
43	2826	94	65.7	1.724	212	4871
44	2919	93	66.3	1.742	214	5085
45	3011	92	66.9	1.761	216	5301
46	3102	91	67.4	1.779	218	5519
47	3192	90	67.9	1.798	220	5739
48	3281	89	68.4	1.817	222	5961
<b>49</b>	<b>3369</b>	<b>88</b>	<b>68.8</b>	<b>1.836</b>	<b>224</b>	<b>6185</b>
50	3456	87	69.1	1.855	225	6410
51	3542	86	69.5	1.874	226	6636
52	3627	85	69.8	1.892	226	6862
53	3711	84	70.0	1.910	227	7089
54	3794	83	70.3	1.928	227	7316
55	3876	82	70.5	1.946	228	7544
<b>56</b>	<b>3958</b>	<b>82</b>	<b>70.7</b>	<b>1.964</b>	<b>228</b>	<b>7772</b>

# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - metric

FEMALES						
Age days	Weight for Age	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	41					
1	51	10				
2	65	14				
3	80	15				
4	99	19				
5	121	22				
6	146	25				
<b>7</b>	<b>175</b>	<b>29</b>	<b>25.0</b>	<b>0.876</b>		<b>150</b>
8	205	30	25.6	0.878	30	180
9	237	32	26.3	0.907	35	215
10	270	33	27.0	0.944	40	255
11	309	39	28.1	0.968	44	299
12	351	42	29.3	0.989	48	347
13	396	45	30.5	1.008	52	399
<b>14</b>	<b>443</b>	<b>47</b>	<b>31.6</b>	<b>1.029</b>	<b>57</b>	<b>456</b>
15	491	48	32.7	1.055	62	518
16	542	51	33.9	1.079	67	585
17	595	53	35.0	1.104	72	657
18	652	57	36.2	1.126	77	734
19	713	61	37.5	1.146	83	817
20	778	65	38.9	1.165	89	906
<b>21</b>	<b>844</b>	<b>66</b>	<b>40.2</b>	<b>1.186</b>	<b>95</b>	<b>1001</b>
22	911	67	41.4	1.210	101	1102
23	979	68	42.6	1.235	107	1209
24	1048	69	43.7	1.261	113	1322
25	1118	70	44.7	1.289	119	1441
26	1190	72	45.8	1.317	126	1567
27	1264	74	46.8	1.345	133	1700
<b>28</b>	<b>1341</b>	<b>77</b>	<b>47.9</b>	<b>1.372</b>	<b>140</b>	<b>1840</b>
29	1419	78	48.9	1.400	146	1986
30	1498	79	49.9	1.427	152	2138
31	1578	80	50.9	1.455	158	2296
32	1660	82	51.9	1.482	164	2460
33	1744	84	52.8	1.509	171	2631
34	1829	85	53.8	1.536	178	2809
<b>35</b>	<b>1914</b>	<b>85</b>	<b>54.7</b>	<b>1.564</b>	<b>185</b>	<b>2994</b>
36	1999	85	55.5	1.591	186	3180
37	2084	85	56.3	1.616	187	3367
38	2169	85	57.1	1.639	188	3555
39	2254	85	57.8	1.661	189	3744
40	2339	85	58.5	1.682	190	3934
41	2425	86	59.1	1.701	191	4125
<b>42</b>	<b>2511</b>	<b>86</b>	<b>59.8</b>	<b>1.719</b>	<b>192</b>	<b>4317</b>
43	2596	85	60.4	1.738	194	4511
44	2679	83	60.9	1.757	196	4707
45	2760	81	61.3	1.777	198	4905
46	2841	81	61.8	1.797	200	5105
47	2922	81	62.2	1.816	202	5307
48	3003	81	62.6	1.835	204	5511
<b>49</b>	<b>3084</b>	<b>81</b>	<b>62.9</b>	<b>1.854</b>	<b>206</b>	<b>5717</b>
50	3165	81	63.3	1.871	206	5923
51	3246	81	63.6	1.888	206	6129
52	3325	79	63.9	1.905	206	6335
53	3404	79	64.2	1.922	206	6541
54	3483	79	64.5	1.937	206	6747
55	3562	79	64.8	1.952	206	6953
<b>56</b>	<b>3641</b>	<b>79</b>	<b>65.0</b>	<b>1.966</b>	<b>206</b>	<b>7159</b>

# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - metric

MALES						
Age days	Weight for Age	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	43					
1	53	10				
2	67	14				
3	82	15				
4	101	19				
5	123	22				
6	150	27				
<b>7</b>	<b>179</b>	<b>29</b>	<b>25.6</b>	<b>0.844</b>		<b>151</b>
8	211	32	26.4	0.858	30	181
9	247	36	27.4	0.874	35	216
10	288	41	28.8	0.889	40	256
11	331	43	30.1	0.912	46	302
12	377	46	31.4	0.939	52	354
13	424	47	32.6	0.972	58	412
<b>14</b>	<b>475</b>	<b>51</b>	<b>33.9</b>	<b>1.000</b>	<b>63</b>	<b>475</b>
15	531	56	35.4	1.026	70	545
16	592	61	37.0	1.051	77	622
17	657	65	38.6	1.075	84	706
18	724	67	40.2	1.101	91	797
19	793	69	41.7	1.127	97	894
20	864	71	43.2	1.154	103	997
<b>21</b>	<b>938</b>	<b>74</b>	<b>44.7</b>	<b>1.179</b>	<b>109</b>	<b>1106</b>
22	1014	76	46.1	1.206	117	1223
23	1093	79	47.5	1.231	123	1346
24	1175	82	49.0	1.259	133	1479
25	1260	85	50.4	1.286	141	1620
26	1348	88	51.8	1.312	148	1768
27	1439	91	53.3	1.336	155	1923
<b>28</b>	<b>1531</b>	<b>92</b>	<b>54.7</b>	<b>1.362</b>	<b>162</b>	<b>2085</b>
29	1626	95	56.1	1.387	170	2255
30	1722	96	57.4	1.413	178	2433
31	1819	97	58.7	1.439	184	2617
32	1917	98	59.9	1.466	194	2811
33	2016	99	61.1	1.494	201	3012
34	2116	100	62.2	1.522	208	3220
<b>35</b>	<b>2217</b>	<b>101</b>	<b>63.3</b>	<b>1.549</b>	<b>215</b>	<b>3435</b>
36	2319	102	64.4	1.575	217	3652
37	2422	103	65.5	1.598	219	3871
38	2526	104	66.5	1.620	221	4092
39	2631	105	67.5	1.640	223	4315
40	2737	106	68.4	1.659	225	4540
41	2844	107	69.4	1.676	226	4766
<b>42</b>	<b>2953</b>	<b>109</b>	<b>70.3</b>	<b>1.691</b>	<b>228</b>	<b>4994</b>
43	3060	107	71.2	1.707	230	5224
44	3165	105	71.9	1.724	232	5456
45	3268	103	72.6	1.741	234	5690
46	3369	101	73.2	1.759	236	5926
47	3468	99	73.8	1.777	238	6164
48	3565	97	74.3	1.796	240	6404
<b>49</b>	<b>3660</b>	<b>95</b>	<b>74.7</b>	<b>1.816</b>	<b>242</b>	<b>6646</b>
50	3753	93	75.1	1.836	244	6890
51	3844	91	75.4	1.856	245	7135
52	3933	89	75.6	1.877	246	7381
53	4020	87	75.8	1.898	247	7628
54	4105	85	76.0	1.919	248	7876
55	4190	85	76.2	1.939	249	8125
<b>56</b>	<b>4275</b>	<b>85</b>	<b>76.3</b>	<b>1.959</b>	<b>250</b>	<b>8375</b>



# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - imperial

AS HATCHED						
Age days	Weight for Age	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.093					
1	0.115	0.022				
2	0.146	0.031				
3	0.179	0.033				
4	0.220	0.042				
5	0.269	0.049				
6	0.326	0.057				
<b>7</b>	<b>0.390</b>	<b>0.064</b>	<b>0.056</b>	<b>0.847</b>		<b>0.331</b>
8	0.459	0.068	0.057	0.865	0.066	0.397
9	0.534	0.075	0.059	0.888	0.077	0.474
10	0.615	0.082	0.062	0.914	0.088	0.562
11	0.705	0.090	0.064	0.938	0.099	0.661
12	0.802	0.097	0.067	0.962	0.110	0.772
13	0.904	0.101	0.070	0.988	0.121	0.893
<b>14</b>	<b>1.012</b>	<b>0.108</b>	<b>0.072</b>	<b>1.013</b>	<b>0.132</b>	<b>1.025</b>
15	1.127	0.115	0.075	1.039	0.146	1.171
16	1.250	0.123	0.078	1.063	0.159	1.329
17	1.380	0.130	0.081	1.088	0.172	1.501
18	1.517	0.137	0.084	1.112	0.185	1.687
19	1.660	0.143	0.087	1.135	0.198	1.885
20	1.810	0.150	0.091	1.158	0.212	2.097
<b>21</b>	<b>1.964</b>	<b>0.154</b>	<b>0.094</b>	<b>1.182</b>	<b>0.225</b>	<b>2.321</b>
22	2.125	0.161	0.097	1.205	0.240	2.562
23	2.291	0.165	0.100	1.230	0.256	2.818
24	2.458	0.168	0.102	1.257	0.271	3.089
25	2.630	0.172	0.105	1.283	0.287	3.375
26	2.804	0.174	0.108	1.311	0.302	3.677
27	2.983	0.179	0.110	1.339	0.317	3.995
<b>28</b>	<b>3.166</b>	<b>0.183</b>	<b>0.113</b>	<b>1.367</b>	<b>0.333</b>	<b>4.328</b>
29	3.353	0.187	0.116	1.394	0.348	4.676
30	3.545	0.192	0.118	1.422	0.364	5.040
31	3.741	0.196	0.121	1.448	0.379	5.419
32	3.942	0.201	0.123	1.475	0.395	5.814
33	4.145	0.203	0.126	1.502	0.410	6.224
34	4.350	0.205	0.128	1.529	0.425	6.649
<b>35</b>	<b>4.557</b>	<b>0.207</b>	<b>0.130</b>	<b>1.556</b>	<b>0.441</b>	<b>7.090</b>
36	4.766	0.209	0.132	1.581	0.445	7.535
37	4.976	0.209	0.135	1.604	0.448	7.983
38	5.185	0.209	0.136	1.627	0.452	8.435
39	5.395	0.209	0.138	1.648	0.454	8.889
40	5.604	0.209	0.140	1.668	0.459	9.348
41	5.814	0.209	0.142	1.687	0.461	9.808
<b>42</b>	<b>6.023</b>	<b>0.209</b>	<b>0.143</b>	<b>1.705</b>	<b>0.463</b>	<b>10.271</b>
43	6.230	0.207	0.145	1.724	0.467	10.739
44	6.435	0.205	0.146	1.742	0.472	11.211
45	6.638	0.203	0.148	1.761	0.476	11.687
46	6.839	0.201	0.149	1.779	0.481	12.167
47	7.037	0.198	0.150	1.798	0.485	12.652
48	7.233	0.196	0.151	1.817	0.489	13.142
<b>49</b>	<b>7.427</b>	<b>0.194</b>	<b>0.152</b>	<b>1.836</b>	<b>0.494</b>	<b>13.636</b>
50	7.619	0.192	0.152	1.855	0.496	14.132
51	7.809	0.190	0.153	1.874	0.498	14.630
52	7.996	0.187	0.154	1.892	0.498	15.128
53	8.181	0.185	0.154	1.910	0.500	15.629
54	8.364	0.183	0.155	1.928	0.500	16.129
55	8.545	0.181	0.155	1.946	0.503	16.632
<b>56</b>	<b>8.726</b>	<b>0.181</b>	<b>0.156</b>	<b>1.964</b>	<b>0.503</b>	<b>17.134</b>

# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - imperial

FEMALES						
Age days	Weight for Age	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.090					
1	0.112	0.022				
2	0.143	0.031				
3	0.176	0.033				
4	0.218	0.042				
5	0.267	0.049				
6	0.322	0.055				
<b>7</b>	<b>0.386</b>	<b>0.064</b>	<b>0.055</b>	<b>0.876</b>		<b>0.331</b>
8	0.452	0.066	0.057	0.878	0.066	0.397
9	0.523	0.071	0.058	0.907	0.077	0.474
10	0.595	0.073	0.060	0.944	0.088	0.562
11	0.681	0.086	0.062	0.968	0.097	0.659
12	0.774	0.093	0.064	0.989	0.106	0.765
13	0.873	0.099	0.067	1.008	0.115	0.880
<b>14</b>	<b>0.977</b>	<b>0.104</b>	<b>0.070</b>	<b>1.029</b>	<b>0.126</b>	<b>1.005</b>
15	1.083	0.106	0.072	1.055	0.137	1.142
16	1.195	0.112	0.075	1.079	0.148	1.290
17	1.312	0.117	0.077	1.104	0.159	1.449
18	1.438	0.126	0.080	1.126	0.170	1.618
19	1.572	0.135	0.083	1.146	0.183	1.801
20	1.715	0.143	0.086	1.165	0.196	1.998
<b>21</b>	<b>1.861</b>	<b>0.146</b>	<b>0.089</b>	<b>1.186</b>	<b>0.209</b>	<b>2.207</b>
22	2.009	0.148	0.091	1.210	0.223	2.430
23	2.159	0.150	0.094	1.235	0.236	2.666
24	2.311	0.152	0.096	1.261	0.249	2.915
25	2.465	0.154	0.099	1.289	0.262	3.177
26	2.624	0.159	0.101	1.317	0.278	3.455
27	2.787	0.163	0.103	1.345	0.293	3.749
<b>28</b>	<b>2.957</b>	<b>0.170</b>	<b>0.106</b>	<b>1.372</b>	<b>0.309</b>	<b>4.057</b>
29	3.129	0.172	0.108	1.400	0.322	4.379
30	3.303	0.174	0.110	1.427	0.335	4.714
31	3.479	0.176	0.112	1.455	0.348	5.063
32	3.660	0.181	0.114	1.482	0.362	5.424
33	3.846	0.185	0.117	1.509	0.377	5.801
34	4.033	0.187	0.119	1.536	0.392	6.194
<b>35</b>	<b>4.220</b>	<b>0.187</b>	<b>0.121</b>	<b>1.564</b>	<b>0.408</b>	<b>6.602</b>
36	4.408	0.187	0.122	1.591	0.410	7.012
37	4.595	0.187	0.124	1.616	0.412	7.424
38	4.783	0.187	0.126	1.639	0.415	7.839
39	4.970	0.187	0.127	1.661	0.417	8.256
40	5.157	0.187	0.129	1.682	0.419	8.674
41	5.347	0.190	0.130	1.701	0.421	9.096
<b>42</b>	<b>5.537</b>	<b>0.190</b>	<b>0.132</b>	<b>1.719</b>	<b>0.423</b>	<b>9.519</b>
43	5.724	0.187	0.133	1.738	0.428	9.947
44	5.907	0.183	0.134	1.757	0.432	10.379
45	6.086	0.179	0.135	1.777	0.437	10.816
46	6.264	0.179	0.136	1.797	0.441	11.257
47	6.443	0.179	0.137	1.816	0.445	11.702
48	6.622	0.179	0.138	1.835	0.450	12.152
<b>49</b>	<b>6.800</b>	<b>0.179</b>	<b>0.139</b>	<b>1.854</b>	<b>0.454</b>	<b>12.606</b>
50	6.979	0.179	0.140	1.871	0.454	13.060
51	7.157	0.179	0.140	1.888	0.454	13.514
52	7.332	0.174	0.141	1.905	0.454	13.969
53	7.506	0.174	0.142	1.922	0.454	14.423
54	7.680	0.174	0.142	1.937	0.454	14.877
55	7.854	0.174	0.143	1.952	0.454	15.331
<b>56</b>	<b>8.028</b>	<b>0.174</b>	<b>0.143</b>	<b>1.966</b>	<b>0.454</b>	<b>15.786</b>



# Cobb500 Broiler Performance & Nutrition Supplement

## Performance objectives - imperial

MALES						
Age days	Weight for Age	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.095					
1	0.117	0.022				
2	0.148	0.031				
3	0.181	0.033				
4	0.223	0.042				
5	0.271	0.049				
6	0.331	0.060				
<b>7</b>	<b>0.395</b>	<b>0.064</b>	<b>0.056</b>	<b>0.844</b>		<b>0.333</b>
8	0.465	0.071	0.058	0.858	0.066	0.399
9	0.545	0.079	0.061	0.874	0.077	0.476
10	0.635	0.090	0.064	0.889	0.088	0.564
11	0.730	0.095	0.066	0.912	0.101	0.666
12	0.831	0.101	0.069	0.939	0.115	0.781
13	0.935	0.104	0.072	0.972	0.128	0.908
<b>14</b>	<b>1.047</b>	<b>0.112</b>	<b>0.075</b>	<b>1.000</b>	<b>0.139</b>	<b>1.047</b>
15	1.171	0.123	0.078	1.026	0.154	1.202
16	1.305	0.135	0.082	1.051	0.170	1.372
17	1.449	0.143	0.085	1.075	0.185	1.557
18	1.596	0.148	0.089	1.101	0.201	1.757
19	1.749	0.152	0.092	1.127	0.214	1.971
20	1.905	0.157	0.095	1.154	0.227	2.198
<b>21</b>	<b>2.068</b>	<b>0.163</b>	<b>0.098</b>	<b>1.179</b>	<b>0.240</b>	<b>2.439</b>
22	2.236	0.168	0.102	1.206	0.258	2.697
23	2.410	0.174	0.105	1.231	0.271	2.968
24	2.591	0.181	0.108	1.259	0.293	3.261
25	2.778	0.187	0.111	1.286	0.311	3.572
26	2.972	0.194	0.114	1.312	0.326	3.898
27	3.173	0.201	0.118	1.336	0.342	4.240
<b>28</b>	<b>3.376</b>	<b>0.203</b>	<b>0.121</b>	<b>1.362</b>	<b>0.357</b>	<b>4.597</b>
29	3.585	0.209	0.124	1.387	0.375	4.972
30	3.797	0.212	0.127	1.413	0.392	5.365
31	4.011	0.214	0.129	1.439	0.406	5.770
32	4.227	0.216	0.132	1.466	0.428	6.198
33	4.445	0.218	0.135	1.494	0.443	6.641
34	4.666	0.221	0.137	1.522	0.459	7.100
<b>35</b>	<b>4.888</b>	<b>0.223</b>	<b>0.140</b>	<b>1.549</b>	<b>0.474</b>	<b>7.574</b>
36	5.113	0.225	0.142	1.575	0.478	8.053
37	5.341	0.227	0.144	1.598	0.483	8.536
38	5.570	0.229	0.147	1.620	0.487	9.023
39	5.801	0.232	0.149	1.640	0.492	9.515
40	6.035	0.234	0.151	1.659	0.496	10.011
41	6.271	0.236	0.153	1.676	0.498	10.509
<b>42</b>	<b>6.511</b>	<b>0.240</b>	<b>0.155</b>	<b>1.691</b>	<b>0.503</b>	<b>11.012</b>
43	6.747	0.236	0.157	1.707	0.507	11.519
44	6.979	0.232	0.159	1.724	0.512	12.030
45	7.206	0.227	0.160	1.741	0.516	12.546
46	7.429	0.223	0.161	1.759	0.520	13.067
47	7.647	0.218	0.163	1.777	0.525	13.592
48	7.861	0.214	0.164	1.796	0.529	14.121
<b>49</b>	<b>8.070</b>	<b>0.209</b>	<b>0.165</b>	<b>1.816</b>	<b>0.534</b>	<b>14.654</b>
50	8.275	0.205	0.166	1.836	0.538	15.192
51	8.476	0.201	0.166	1.856	0.540	15.733
52	8.672	0.196	0.167	1.877	0.542	16.275
53	8.864	0.192	0.167	1.898	0.545	16.820
54	9.052	0.187	0.168	1.919	0.547	17.367
55	9.239	0.187	0.168	1.939	0.549	17.916
<b>56</b>	<b>9.426</b>	<b>0.187</b>	<b>0.168</b>	<b>1.959</b>	<b>0.551</b>	<b>18.467</b>

# Cobb500 Broiler Performance & Nutrition Supplement

## Broiler Nutrition

### Recommended minimum specifications

		Starter	Grower	Finisher 1	Finisher 2*
<b>FEEDING AMOUNT/bird</b>		<b>250 g</b> <b>0.55 lb</b>	<b>1000 g</b> <b>2.20 lb</b>		
<b>FEEDING PERIOD days</b>		<b>0 - 10</b>	<b>11 - 22</b>	<b>23 - 42</b>	<b>43 +</b>
<b>FEED STRUCTURE</b>		<b>Crumb</b>	<b>Pellet</b>	<b>Pellet</b>	<b>Pellet</b>
<b>Crude Protein</b>	%	21-22	19-20	18-19	17-18
<b>Metabolizable energy (AMEn<sup>†</sup>)</b>	MJ/kg	12.70	13.00	13.30	13.40
	Kcal/kg	3035	3108	3180	3203
	Kcal/lb	1380	1410	1442	1453
<b>Lysine</b>	%	1.32	1.19	1.05	1.00
<b>Digestible Lysine</b>	%	1.18	1.05	0.95	0.90
<b>Methionine</b>	%	0.50	0.48	0.43	0.41
<b>Digestible Methionine</b>	%	0.45	0.42	0.39	0.37
<b>Met + Cys</b>	%	0.98	0.89	0.82	0.78
<b>Digestible Met + Cys</b>	%	0.88	0.80	0.74	0.70
<b>Tryptophan</b>	%	0.20	0.19	0.19	0.18
<b>Digestible Tryptophan</b>	%	0.18	0.17	0.17	0.16
<b>Threonine</b>	%	0.86	0.78	0.71	0.68
<b>Digestible Threonine</b>	%	0.77	0.69	0.65	0.61
<b>Arginine</b>	%	1.38	1.25	1.13	1.08
<b>Digestible Arginine</b>	%	1.24	1.10	1.03	0.97
<b>Valine</b>	%	1.00	0.91	0.81	0.77
<b>Digestible Valine</b>	%	0.89	0.81	0.73	0.69
<b>Calcium</b>	%	0.90	0.84	0.76	0.76
<b>Available Phosphorus</b>	%	0.45	0.42	0.38	0.38
<b>Sodium</b>	%	0.16-0.23	0.16-0.23	0.15-0.23	0.15-0.23
<b>Chloride</b>	%	0.17-0.35	0.16-0.35	0.15-0.35	0.15-0.35
<b>Potassium</b>	%	0.60-0.95	0.60-0.85	0.60-0.80	0.60-0.80
<b>Linoleic Acid</b>	%	1.00	1.00	1.00	1.00

<sup>†</sup> The AMEn values are based on the WPSA European table of energy values for Poultry Feedstuffs 3rd Edition 1989.

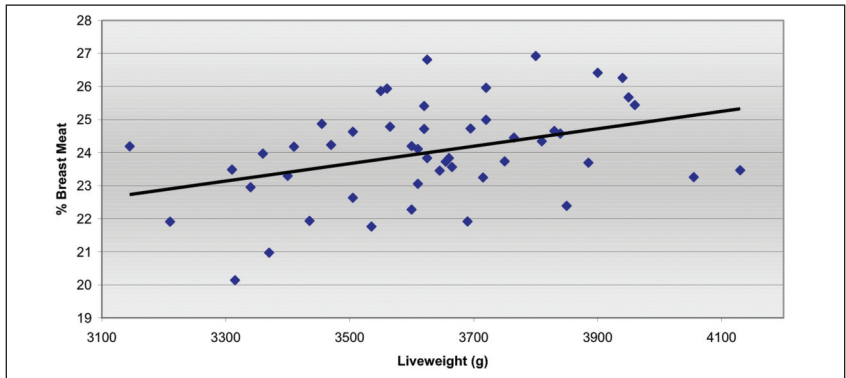
\* Should withdrawal feed be required use same finisher specification.

## Yield Performance

Meat yield is dependent on many factors, but those that have the most influence are weight, age and nutrition.

### Weight

- Carcass and breast meat yield increase as a function of liveweight at any given age.



Percent breast meat yield for birds from a single flock of males processed at 50 days.

### Age

- Carcass and breast meat yield increase as a function of age.
- Older birds processed at the same weight will often yield more than their younger counterparts.

Sex	Age	Weight g (lb)	% Eviscerated Carcass
A/H	46	2826 (6.231)	74.6
A/H	43	2830 (6.240)	74.1
<b>Difference</b>	<b>3</b>	<b>-4</b>	<b>0.50</b>

### Feed

- Carcass composition is affected by nutrition.
- Rations of varying nutrient density will affect yield in different ways.
- As protein is increased there is a corresponding increase in breast meat yield as a percent of live weight.

# Cobb500 Broiler Performance & Nutrition Supplement

## Yield Performance

### Predicted carcass yields at given weights

AS HATCHED						
Weight		% Carcass	% Boneless Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
1600	3.528	71.9	20.70	13.78	8.77	7.78
1800	3.969	72.5	21.25	13.94	8.79	7.75
2000	4.410	73.1	22.12	14.08	8.81	7.72
2200	4.851	73.8	22.74	14.16	8.83	7.69
2400	5.292	74.4	23.31	14.28	8.85	7.66
2600	5.733	75.1	23.83	14.40	8.87	7.63
2800	6.174	75.9	24.26	14.50	8.89	7.60
3000	6.615	76.4	24.56	14.58	8.91	7.57
3200	7.056	77.0	25.11	14.66	8.93	7.54

FEMALES						
Weight		% Carcass	% Boneless Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
1600	3.528	72.0	21.53	14.02	8.52	7.84
1800	3.969	72.6	21.65	14.20	8.54	7.81
2000	4.410	73.2	22.40	14.36	8.56	7.78
2200	4.851	73.7	22.98	14.40	8.58	7.75
2400	5.292	74.5	23.46	14.52	8.60	7.72
2600	5.733	75.6	23.93	14.66	8.62	7.69
2800	6.174	75.8	24.31	14.76	8.64	7.66

MALES						
Weight		% Carcass	% Boneless Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
1600	3.528	71.8	20.35	13.54	9.02	7.71
1800	3.969	72.4	20.97	13.67	9.04	7.68
2000	4.410	73.0	21.84	13.79	9.06	7.65
2200	4.851	73.7	22.50	13.91	9.08	7.62
2400	5.292	74.3	23.15	14.04	9.10	7.58
2600	5.733	75.0	23.73	14.14	9.12	7.55
2800	6.174	75.6	24.21	14.24	9.14	7.52
3000	6.615	76.3	24.46	14.36	9.16	7.49
3200	7.056	76.9	24.95	14.48	9.18	7.46
3400	7.497	77.5	25.53	14.59	9.20	7.43
3600	7.938	78.2	26.10	14.71	9.22	7.40

- Eviscerated carcass is calculated with feet and shanks removed from the hock joint.
- % Boneless breast is as a percentage of live weight.

# Cobb500 Broiler Performance & Nutrition Supplement

## Broiler Nutrition

### Balanced protein total amino acid profiles

Amino Acid	Starter 0-10 days	Grower 11-22 days	Finisher 1 23-42 days	Finisher 2 43- days
Lysine*	100	100	100	100
Methionine	38	40	41	41
Methionine + Cystine	74	76	78	78
Tryptophan	16	16	18	18
Threonine	65	66	68	68
Arginine	105	105	108	108
Valine	75	76	77	77

\* In the profile Lysine is always the reference amino acid, and is shown at 100%.

### Supplementary levels of vitamins and trace elements (per tonne)

		Starter	Grower	Finisher 1 and 2
Vitamin A	(MIU)	13	10	10
Vitamin D3	(MIU)	5	5	5
Vitamin E	(KIU)	80	50	50
Vitamin K	(g)	3	3	3
Vitamin B1 (thiamine)	(g)	3	2	2
Vitamin B2 (riboflavin)	(g)	9	8	6
Vitamin B6 (pyridoxine)	(g)	4	3	3
Vitamin B12	(mg)	20	15	15
Biotin (Maize Diets)	(mg)	150	120	120
Biotin (Wheat Diets)	(mg)	200	180	180
Choline*	(mg)	500	400	350
Folic Acid	(g)	2	2	1.5
Nicotinic Acid	(g)	60	50	50
Pantothenic Acid	(g)	15	12	10
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)	0.35	0.35	0.35

\* Preferably Choline is added directly into the mixer rather than via a premix because of its hygroscopic nature.

Vitamin and trace mineral levels may vary depending on the source and supplier. The numbers above refers to e.g. usage of inorganic minerals and a vitamin D3 source.

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).

[cobb-vantress.com](http://cobb-vantress.com)