

# Cobb500<sup>TM</sup>

Broiler  
Performance  
& Nutrition  
Supplement

COBB-VANTRESS.COM



ONE FAMILY.  
ONE PURPOSE.

# Broiler Performance & Nutrition



## 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.**

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Broiler performance varies from country to country. 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.

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.

Today's broiler farmers not only want to raise broilers that grow efficiently, but also want broilers that have good livability and good animal welfare characteristics. Cobb's dedication for broiler genetics has generated incredible advances in economic traits related to feed efficiency, growth and muscle quality, and has also produced broiler genetics with improved cardiovascular function, better skeletal strength, and more uniform body size.

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# Performance Objectives - Metric

**AS HATCHED**

Age days	Weight for Age (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	42					
1	63					
2	74					
3	90					
4	109					
5	134					
6	163					
<b>7</b>	<b>193</b>	<b>30</b>	<b>28</b>	<b>0.76</b>		<b>145</b>
8	228	36	29	0.80	37	182
9	269	41	30	0.84	43	225
10	313	44	31	0.88	50	275
11	362	48	33	0.92	57	331
12	414	52	34	0.95	64	395
13	469	55	36	1.00	72	467
<b>14</b>	<b>528</b>	<b>59</b>	<b>38</b>	<b>1.03</b>	<b>74</b>	<b>541</b>
15	589	62	39	1.05	78	619
16	654	65	41	1.08	85	704
17	722	68	42	1.10	91	795
18	792	70	44	1.13	103	898
19	865	73	46	1.16	110	1007
20	941	75	47	1.19	114	1121
<b>21</b>	<b>1018</b>	<b>78</b>	<b>48</b>	<b>1.22</b>	<b>118</b>	<b>1239</b>
22	1098	80	50	1.24	123	1362
23	1180	82	51	1.26	128	1489
24	1264	84	53	1.28	133	1622
25	1349	85	54	1.30	137	1759
26	1436	87	55	1.33	144	1903
27	1525	89	56	1.35	150	2054
<b>28</b>	<b>1615</b>	<b>90</b>	<b>58</b>	<b>1.37</b>	<b>156</b>	<b>2209</b>
29	1706	91	59	1.39	160	2369
30	1798	92	60	1.41	164	2533
31	1892	93	61	1.43	167	2700
32	1986	94	62	1.45	170	2870
33	2081	95	63	1.46	174	3043
34	2177	96	64	1.48	177	3220
<b>35</b>	<b>2273</b>	<b>96</b>	<b>65</b>	<b>1.50</b>	<b>179</b>	<b>3399</b>
36	2369	97	66	1.51	182	3581
37	2466	97	67	1.53	186	3767
38	2563	97	67	1.54	190	3958
39	2661	97	68	1.56	193	4151
40	2758	97	69	1.58	197	4348
41	2855	97	70	1.59	203	4552
<b>42</b>	<b>2952</b>	<b>97</b>	<b>70</b>	<b>1.61</b>	<b>208</b>	<b>4760</b>
43	3049	97	71	1.63	213	4973
44	3145	96	71	1.65	218	5191
45	3240	95	72	1.67	224	5414
46	3335	95	73	1.69	228	5642
47	3430	95	73	1.71	231	5873
48	3524	94	73	1.73	236	6109
<b>49</b>	<b>3617</b>	<b>93</b>	<b>74</b>	<b>1.76</b>	<b>241</b>	<b>6349</b>
50	3707	91	74	1.78	243	6592
51	3797	90	74	1.80	244	6835
52	3885	88	75	1.82	245	7080
53	3973	87	75	1.84	247	7326
54	4059	86	75	1.87	247	7573
55	4144	85	75	1.89	246	7819
<b>56</b>	<b>4227</b>	<b>83</b>	<b>75</b>	<b>1.91</b>	<b>245</b>	<b>8063</b>
57	4309	82	76	1.93	243	8306
58	4389	80	76	1.95	241	8547
59	4466	77	76	1.97	239	8786
60	4542	76	76	1.99	237	9022
61	4616	74	76	2.01	234	9256
62	4688	73	76	2.02	232	9488
<b>63</b>	<b>4759</b>	<b>70</b>	<b>76</b>	<b>2.04</b>	<b>228</b>	<b>9716</b>

# Performance Objectives - Metric

FEMALES						
Age days	Weight for Age (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	42					
1	63					
2	74					
3	89					
4	108					
5	133					
6	162					
<b>7</b>	<b>191</b>	<b>29</b>	<b>27</b>	<b>0.76</b>		<b>145</b>
8	227	36	28	0.80	36	181
9	267	40	30	0.84	43	224
10	310	43	31	0.88	50	274
11	358	48	33	0.92	56	330
12	409	51	34	0.96	63	393
13	464	54	36	1.00	70	463
<b>14</b>	<b>521</b>	<b>58</b>	<b>37</b>	<b>1.03</b>	<b>72</b>	<b>535</b>
15	582	60	39	1.05	76	611
16	645	63	40	1.08	83	694
17	711	66	42	1.10	89	783
18	779	68	43	1.13	98	881
19	849	70	45	1.16	107	988
20	921	72	46	1.19	112	1100
<b>21</b>	<b>995</b>	<b>74</b>	<b>47</b>	<b>1.22</b>	<b>115</b>	<b>1215</b>
22	1071	76	49	1.25	120	1335
23	1148	77	50	1.27	124	1459
24	1227	79	51	1.29	128	1587
25	1307	80	52	1.31	131	1718
26	1389	81	53	1.34	137	1855
27	1471	82	54	1.36	143	1998
<b>28</b>	<b>1554</b>	<b>83</b>	<b>56</b>	<b>1.38</b>	<b>148</b>	<b>2146</b>
29	1638	84	56	1.40	151	2297
30	1723	85	57	1.42	154	2451
31	1808	85	58	1.44	156	2607
32	1894	86	59	1.46	159	2766
33	1980	86	60	1.48	162	2928
34	2067	86	61	1.50	164	3092
<b>35</b>	<b>2153</b>	<b>87</b>	<b>62</b>	<b>1.51</b>	<b>166</b>	<b>3258</b>
36	2240	87	62	1.53	169	3427
37	2327	87	63	1.55	172	3599
38	2413	87	64	1.56	177	3776
39	2500	86	64	1.58	179	3955
40	2586	86	65	1.60	183	4138
41	2672	86	65	1.62	189	4327
<b>42</b>	<b>2757</b>	<b>85</b>	<b>66</b>	<b>1.64</b>	<b>193</b>	<b>4520</b>
43	2843	85	66	1.66	198	4718
44	2927	84	67	1.68	202	4920
45	3011	84	67	1.70	208	5128
46	3094	83	67	1.73	212	5340
47	3177	83	68	1.75	215	5555
48	3260	83	68	1.77	220	5775
<b>49</b>	<b>3342</b>	<b>82</b>	<b>68</b>	<b>1.80</b>	<b>225</b>	<b>6000</b>
50	3421	79	68	1.82	226	6226
51	3498	78	69	1.84	225	6451
52	3576	77	69	1.87	224	6675
53	3652	77	69	1.89	224	6899
54	3728	76	69	1.91	223	7122
55	3804	75	69	1.93	221	7343
<b>56</b>	<b>3878</b>	<b>75</b>	<b>69</b>	<b>1.95</b>	<b>219</b>	<b>7562</b>
57	3952	73	69	1.97	217	7779
58	4024	73	69	1.99	216	7995
59	4094	70	69	2.01	214	8209
60	4164	70	69	2.02	213	8422
61	4233	69	69	2.04	211	8633
62	4302	69	69	2.06	209	8842
<b>63</b>	<b>4370</b>	<b>68</b>	<b>69</b>	<b>2.07</b>	<b>207</b>	<b>9049</b>

# Performance Objectives - Metric

MALES						
Age days	Weight for Age (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	42					
1	63					
2	74					
3	90					
4	110					
5	135					
6	164					
<b>7</b>	<b>194</b>	<b>30</b>	<b>28</b>	<b>0.75</b>		<b>146</b>
8	230	36	29	0.79	37	183
9	271	41	30	0.83	43	226
10	316	45	32	0.87	50	276
11	365	49	33	0.91	57	333
12	418	53	35	0.95	64	397
13	474	56	36	0.99	74	471
<b>14</b>	<b>534</b>	<b>60</b>	<b>38</b>	<b>1.02</b>	<b>76</b>	<b>547</b>
15	597	63	40	1.05	80	627
16	664	67	41	1.08	87	714
17	733	70	43	1.10	93	807
18	806	73	45	1.13	107	914
19	882	76	46	1.16	112	1027
20	960	79	48	1.19	116	1143
<b>21</b>	<b>1042</b>	<b>81</b>	<b>50</b>	<b>1.21</b>	<b>120</b>	<b>1263</b>
22	1125	84	51	1.23	125	1388
23	1212	86	53	1.25	131	1519
24	1300	89	54	1.27	138	1657
25	1391	91	56	1.29	143	1800
26	1484	93	57	1.32	151	1951
27	1579	95	58	1.34	158	2109
<b>28</b>	<b>1675</b>	<b>97</b>	<b>60</b>	<b>1.36</b>	<b>164</b>	<b>2273</b>
29	1774	98	61	1.38	169	2441
30	1874	100	62	1.40	173	2615
31	1975	101	64	1.41	177	2792
32	2078	103	65	1.43	181	2973
33	2182	104	66	1.45	185	3159
34	2286	105	67	1.46	189	3348
<b>35</b>	<b>2392</b>	<b>106</b>	<b>68</b>	<b>1.48</b>	<b>192</b>	<b>3540</b>
36	2499	107	69	1.49	195	3735
37	2606	107	70	1.51	200	3935
38	2714	108	71	1.53	204	4139
39	2822	108	72	1.54	208	4347
40	2930	108	73	1.56	212	4559
41	3038	108	74	1.57	218	4776
<b>42</b>	<b>3147</b>	<b>108</b>	<b>75</b>	<b>1.59</b>	<b>223</b>	<b>4999</b>
43	3255	108	76	1.61	229	5228
44	3363	108	76	1.62	234	5461
45	3470	107	77	1.64	239	5701
46	3577	107	78	1.66	243	5944
47	3682	106	78	1.68	247	6191
48	3787	105	79	1.70	251	6443
<b>49</b>	<b>3891</b>	<b>104</b>	<b>79</b>	<b>1.72</b>	<b>256</b>	<b>6699</b>
50	3994	103	80	1.74	259	6958
51	4095	101	80	1.76	262	7220
52	4195	100	81	1.78	265	7485
53	4293	98	81	1.81	269	7754
54	4389	96	81	1.83	270	8024
55	4484	94	82	1.85	271	8295
<b>56</b>	<b>4576</b>	<b>92</b>	<b>82</b>	<b>1.87</b>	<b>270</b>	<b>8565</b>
57	4666	90	82	1.89	268	8833
58	4753	87	82	1.91	266	9099
59	4838	85	82	1.94	264	9363
60	4920	82	82	1.96	260	9623
61	4999	79	82	1.98	257	9880
62	5075	76	82	2.00	254	10134
<b>63</b>	<b>5148</b>	<b>73</b>	<b>82</b>	<b>2.02</b>	<b>249</b>	<b>10383</b>

# Performance Objectives - Notes

# Performance Objectives - Imperial

## AS HATCHED

Age days	Weight for Age (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.093					
1	0.139					
2	0.163					
3	0.197					
4	0.240					
5	0.295					
6	0.359					
<b>7</b>	<b>0.425</b>	<b>0.065</b>	<b>0.061</b>	<b>0.76</b>		<b>0.321</b>
8	0.504	0.079	0.063	0.80	0.095	0.401
9	0.593	0.090	0.066	0.84	0.110	0.496
10	0.691	0.097	0.069	0.88	0.125	0.606
11	0.797	0.107	0.072	0.92	0.140	0.731
12	0.912	0.114	0.076	0.95	0.159	0.871
13	1.034	0.122	0.080	1.00	0.163	1.029
<b>14</b>	<b>1.163</b>	<b>0.129</b>	<b>0.083</b>	<b>1.03</b>	<b>0.172</b>	<b>1.193</b>
15	1.299	0.136	0.087	1.05	0.187	1.364
16	1.442	0.143	0.090	1.08	0.201	1.552
17	1.592	0.149	0.094	1.10	0.226	1.753
18	1.747	0.155	0.097	1.13	0.242	1.979
19	1.908	0.161	0.100	1.16	0.251	2.221
20	2.074	0.166	0.104	1.19	0.259	2.472
<b>21</b>	<b>2.245</b>	<b>0.171</b>	<b>0.107</b>	<b>1.22</b>	<b>0.270</b>	<b>2.731</b>
22	2.421	0.176	0.110	1.24	0.281	3.002
23	2.602	0.180	0.113	1.26	0.293	3.283
24	2.786	0.185	0.116	1.28	0.302	3.576
25	2.975	0.188	0.119	1.30	0.318	3.878
26	3.167	0.192	0.122	1.33	0.331	4.196
27	3.362	0.195	0.125	1.35	0.343	4.527
<b>28</b>	<b>3.560</b>	<b>0.198</b>	<b>0.127</b>	<b>1.37</b>	<b>0.352</b>	<b>4.871</b>
29	3.761	0.201	0.130	1.39	0.361	5.223
30	3.965	0.204	0.132	1.41	0.367	5.584
31	4.171	0.206	0.135	1.43	0.375	5.952
32	4.378	0.208	0.137	1.45	0.383	6.327
33	4.588	0.209	0.139	1.46	0.389	6.709
34	4.798	0.211	0.141	1.48	0.395	7.099
<b>35</b>	<b>5.011</b>	<b>0.212</b>	<b>0.143</b>	<b>1.50</b>	<b>0.401</b>	<b>7.493</b>
36	5.224	0.213	0.145	1.51	0.410	7.895
37	5.437	0.214	0.147	1.53	0.420	8.305
38	5.651	0.214	0.149	1.54	0.426	8.725
39	5.866	0.214	0.150	1.56	0.435	9.151
40	6.080	0.214	0.152	1.58	0.448	9.587
41	6.295	0.214	0.154	1.59	0.458	10.035
<b>42</b>	<b>6.508</b>	<b>0.213</b>	<b>0.155</b>	<b>1.61</b>	<b>0.470</b>	<b>10.493</b>
43	6.721	0.213	0.156	1.63	0.480	10.963
44	6.933	0.212	0.158	1.65	0.493	11.443
45	7.143	0.210	0.159	1.67	0.502	11.937
46	7.353	0.210	0.160	1.69	0.510	12.439
47	7.562	0.209	0.161	1.71	0.519	12.948
48	7.769	0.207	0.162	1.73	0.530	13.468
<b>49</b>	<b>7.973</b>	<b>0.205</b>	<b>0.163</b>	<b>1.76</b>	<b>0.535</b>	<b>13.998</b>
50	8.173	0.200	0.163	1.78	0.537	14.533
51	8.370	0.197	0.164	1.80	0.539	15.070
52	8.565	0.195	0.165	1.82	0.543	15.609
53	8.758	0.193	0.165	1.84	0.543	16.152
54	8.948	0.190	0.166	1.87	0.542	16.696
55	9.135	0.187	0.166	1.89	0.539	17.238
<b>56</b>	<b>9.319</b>	<b>0.184</b>	<b>0.166</b>	<b>1.91</b>	<b>0.535</b>	<b>17.777</b>
57	9.499	0.180	0.167	1.93	0.531	18.312
58	9.675	0.176	0.167	1.95	0.527	18.843
59	9.846	0.171	0.167	1.97	0.521	19.370
60	10.013	0.167	0.167	1.99	0.516	19.891
61	10.176	0.163	0.167	2.01	0.510	20.407
62	10.336	0.160	0.167	2.02	0.503	20.917
<b>63</b>	<b>10.491</b>	<b>0.155</b>	<b>0.167</b>	<b>2.04</b>	<b>0.495</b>	<b>21.420</b>

# Performance Objectives - Imperial

## FEMALES

Age days	Weight for Age (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.093					
1	0.139					
2	0.163					
3	0.196					
4	0.238					
5	0.293					
6	0.357					
<b>7</b>	<b>0.421</b>	<b>0.064</b>	<b>0.060</b>	<b>0.76</b>		<b>0.320</b>
8	0.500	0.079	0.062	0.80	0.095	0.399
9	0.589	0.089	0.065	0.84	0.110	0.494
10	0.684	0.096	0.068	0.88	0.123	0.604
11	0.790	0.105	0.072	0.92	0.139	0.728
12	0.902	0.113	0.075	0.96	0.154	0.867
13	1.022	0.120	0.079	1.00	0.159	1.021
<b>14</b>	<b>1.149</b>	<b>0.127</b>	<b>0.082</b>	<b>1.03</b>	<b>0.168</b>	<b>1.180</b>
15	1.283	0.133	0.086	1.05	0.183	1.347
16	1.422	0.139	0.089	1.08	0.196	1.530
17	1.566	0.145	0.092	1.10	0.216	1.727
18	1.716	0.150	0.095	1.13	0.236	1.943
19	1.871	0.155	0.098	1.16	0.247	2.179
20	2.031	0.159	0.102	1.19	0.254	2.425
<b>21</b>	<b>2.194</b>	<b>0.163</b>	<b>0.104</b>	<b>1.22</b>	<b>0.265</b>	<b>2.679</b>
22	2.361	0.167	0.107	1.25	0.273	2.944
23	2.532	0.171	0.110	1.27	0.282	3.217
24	2.706	0.174	0.113	1.29	0.289	3.499
25	2.882	0.177	0.115	1.31	0.302	3.788
26	3.062	0.179	0.118	1.34	0.315	4.090
27	3.243	0.182	0.120	1.36	0.326	4.405
<b>28</b>	<b>3.427</b>	<b>0.184</b>	<b>0.122</b>	<b>1.38</b>	<b>0.333</b>	<b>4.731</b>
29	3.612	0.185	0.125	1.40	0.340	5.064
30	3.799	0.187	0.127	1.42	0.344	5.404
31	3.987	0.188	0.129	1.44	0.351	5.748
32	4.176	0.189	0.131	1.46	0.357	6.098
33	4.366	0.190	0.132	1.48	0.362	6.455
34	4.556	0.190	0.134	1.50	0.366	6.817
<b>35</b>	<b>4.747</b>	<b>0.191</b>	<b>0.136</b>	<b>1.51</b>	<b>0.373</b>	<b>7.183</b>
36	4.938	0.191	0.137	1.53	0.379	7.555
37	5.129	0.191	0.139	1.55	0.390	7.935
38	5.320	0.191	0.140	1.56	0.395	8.325
39	5.511	0.191	0.141	1.58	0.403	8.719
40	5.701	0.190	0.143	1.60	0.417	9.123
41	5.891	0.190	0.144	1.62	0.425	9.539
<b>42</b>	<b>6.079</b>	<b>0.188</b>	<b>0.145</b>	<b>1.64</b>	<b>0.437</b>	<b>9.965</b>
43	6.267	0.188	0.146	1.66	0.445	10.401
44	6.453	0.186	0.147	1.68	0.459	10.847
45	6.637	0.184	0.147	1.70	0.467	11.305
46	6.821	0.184	0.148	1.73	0.474	11.773
47	7.005	0.184	0.149	1.75	0.485	12.247
48	7.188	0.183	0.150	1.77	0.496	12.732
<b>49</b>	<b>7.368</b>	<b>0.180</b>	<b>0.150</b>	<b>1.80</b>	<b>0.498</b>	<b>13.228</b>
50	7.541	0.173	0.151	1.82	0.496	13.726
51	7.713	0.172	0.151	1.84	0.494	14.222
52	7.883	0.170	0.152	1.87	0.494	14.716
53	8.052	0.169	0.152	1.89	0.492	15.210
54	8.219	0.168	0.152	1.91	0.487	15.701
55	8.385	0.166	0.152	1.93	0.483	16.189
<b>56</b>	<b>8.550</b>	<b>0.165</b>	<b>0.153</b>	<b>1.95</b>	<b>0.478</b>	<b>16.671</b>
57	8.712	0.161	0.153	1.97	0.476	17.150
58	8.872	0.160	0.153	1.99	0.472	17.626
59	9.026	0.155	0.153	2.01	0.470	18.098
60	9.180	0.153	0.153	2.02	0.465	18.567
61	9.332	0.152	0.153	2.04	0.461	19.033
62	9.484	0.152	0.153	2.06	0.456	19.493
<b>63</b>	<b>9.634</b>	<b>0.150</b>	<b>0.153</b>	<b>2.07</b>	<b>0.450</b>	<b>19.950</b>

# Performance Objectives - Imperial

## MALES

Age days	Weight for Age (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.093					
1	0.140					
2	0.162					
3	0.198					
4	0.243					
5	0.298					
6	0.362					
<b>7</b>	<b>0.428</b>	<b>0.067</b>	<b>0.061</b>	<b>0.75</b>		<b>0.321</b>
8	0.508	0.079	0.063	0.79	0.095	0.403
9	0.598	0.090	0.066	0.83	0.110	0.498
10	0.697	0.099	0.070	0.87	0.126	0.608
11	0.805	0.108	0.073	0.91	0.141	0.733
12	0.921	0.116	0.077	0.95	0.163	0.875
13	1.045	0.124	0.080	0.99	0.168	1.038
<b>14</b>	<b>1.177</b>	<b>0.132</b>	<b>0.084</b>	<b>1.02</b>	<b>0.176</b>	<b>1.205</b>
15	1.316	0.139	0.088	1.05	0.192	1.381
16	1.463	0.147	0.091	1.08	0.206	1.573
17	1.617	0.154	0.095	1.10	0.237	1.779
18	1.777	0.160	0.099	1.13	0.248	2.016
19	1.944	0.167	0.102	1.16	0.256	2.263
20	2.117	0.173	0.106	1.19	0.265	2.519
<b>21</b>	<b>2.296</b>	<b>0.179</b>	<b>0.109</b>	<b>1.21</b>	<b>0.276</b>	<b>2.784</b>
22	2.481	0.185	0.113	1.23	0.289	3.060
23	2.671	0.190	0.116	1.25	0.305	3.349
24	2.866	0.195	0.119	1.27	0.315	3.653
25	3.067	0.200	0.123	1.29	0.334	3.968
26	3.271	0.205	0.126	1.32	0.348	4.302
27	3.480	0.209	0.129	1.34	0.361	4.650
<b>28</b>	<b>3.693</b>	<b>0.213</b>	<b>0.132</b>	<b>1.36</b>	<b>0.372</b>	<b>5.010</b>
29	3.910	0.217	0.135	1.38	0.382	5.382
30	4.131	0.220	0.138	1.40	0.391	5.764
31	4.354	0.223	0.140	1.41	0.400	6.155
32	4.580	0.226	0.143	1.43	0.408	6.555
33	4.809	0.229	0.146	1.45	0.417	6.963
34	5.041	0.231	0.148	1.46	0.424	7.381
<b>35</b>	<b>5.274</b>	<b>0.233</b>	<b>0.151</b>	<b>1.48</b>	<b>0.430</b>	<b>7.804</b>
36	5.509	0.235	0.153	1.49	0.441	8.234
37	5.745	0.236	0.155	1.51	0.450	8.675
38	5.983	0.237	0.157	1.53	0.458	9.125
39	6.221	0.238	0.160	1.54	0.467	9.583
40	6.460	0.239	0.161	1.56	0.480	10.050
41	6.699	0.239	0.163	1.57	0.491	10.530
<b>42</b>	<b>6.937</b>	<b>0.239</b>	<b>0.165</b>	<b>1.59</b>	<b>0.504</b>	<b>11.021</b>
43	7.176	0.238	0.167	1.61	0.515	11.525
44	7.413	0.238	0.168	1.62	0.528	12.040
45	7.650	0.237	0.170	1.64	0.537	12.568
46	7.885	0.235	0.171	1.66	0.545	13.104
47	8.118	0.233	0.173	1.68	0.554	13.649
48	8.350	0.231	0.174	1.70	0.565	14.203
<b>49</b>	<b>8.579</b>	<b>0.229</b>	<b>0.175</b>	<b>1.72</b>	<b>0.571</b>	<b>14.768</b>
50	8.805	0.226	0.176	1.74	0.578	15.339
51	9.028	0.223	0.177	1.76	0.584	15.917
52	9.248	0.220	0.178	1.78	0.593	16.501
53	9.464	0.216	0.179	1.81	0.595	17.094
54	9.677	0.212	0.179	1.83	0.597	17.690
55	9.884	0.208	0.180	1.85	0.595	18.287
<b>56</b>	<b>10.088</b>	<b>0.203</b>	<b>0.180</b>	<b>1.87</b>	<b>0.591</b>	<b>18.882</b>
57	10.286	0.198	0.180	1.89	0.586	19.473
58	10.478	0.193	0.181	1.91	0.582	20.060
59	10.665	0.187	0.181	1.94	0.573	20.642
60	10.846	0.181	0.181	1.96	0.567	21.215
61	11.021	0.174	0.181	1.98	0.560	21.781
62	11.188	0.168	0.180	2.00	0.549	22.341
<b>63</b>	<b>11.349</b>	<b>0.161</b>	<b>0.180</b>	<b>2.02</b>	<b>0.540</b>	<b>22.890</b>

# Broiler Nutrition

## Nutrient Recommendations

	Starter	Grower	Finisher 1	Finisher 2*
<b>FEEDING AMOUNT/bird</b>	<b>180 g 0.40 lb</b>	<b>700 g 1.54 lb</b>	<b>1350 g 3.0 lb</b>	
<b>FEEDING PERIOD days</b>	<b>0 - 8</b>	<b>9 - 18</b>	<b>19 - 28</b>	<b>&gt; 29</b>
<b>FEED STRUCTURE</b>	<b>Crumble</b>	<b>Crumble / Pellet</b>	<b>Pellet</b>	<b>Pellet</b>
<b>Crude Protein</b>	%	21-22	19-20	18-19
<b>Metabolizable energy (AMEn<sup>†</sup>)</b>	MJ/kg Kcal/kg Kcal/lb	12.45 2,975 1,349	12.66 3,025 1,372	12.97 3,100 1,406
<b>Digestible Lysine</b>	%	1.22	1.12	1.02
<b>Digestible Methionine</b>	%	0.46	0.45	0.42
<b>Digestible Met + Cys</b>	%	0.91	0.85	0.80
<b>Digestible Tryptophan</b>	%	0.20	0.18	0.18
<b>Digestible Threonine</b>	%	0.83	0.73	0.66
<b>Digestible Arginine</b>	%	1.28	1.18	1.07
<b>Digestible Valine</b>	%	0.89	0.85	0.76
<b>Digestible Isoleucine</b>	%	0.77	0.72	0.67
<b>Calcium</b>	%	0.90	0.84	0.76
<b>Available Phosphorus</b>	%	0.45	0.42	0.38
<b>Sodium</b>	%	0.16-0.23	0.16-0.23	0.16-0.23
<b>Chloride</b>	%	0.16-0.30	0.16-0.30	0.16-0.30
<b>Potassium</b>	%	0.60-0.95	0.60-0.95	0.60-0.95
<b>Linoleic Acid</b>	%	1.00	1.00	1.00

<sup>†</sup> Energy system is based on the Apparent Metabolizable Energy corrected by Nitrogen (AMEn).

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

# Broiler Nutrition

## Balanced digestible amino acid ratios

Amino Acid	Starter %	Grower %	Finisher 1 %	Finisher 2* %
Lysine <sup>†</sup>	100	100	100	100
Methionine	38	40	41	41
Methionine + Cystine	75	76	78	78
Tryptophan	16	16	18	18
Threonine	68	65	65	65
Arginine	105	105	105	105
Valine	73	75	75	75
Isoleucine	63	64	65	66

<sup>†</sup>In the profile Lysine is always the reference amino acid, and is shown at 100%.

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

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

	Starter	Grower	Finisher 1 & 2
Vitamin A (MIU)	10-13	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*	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 mix 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

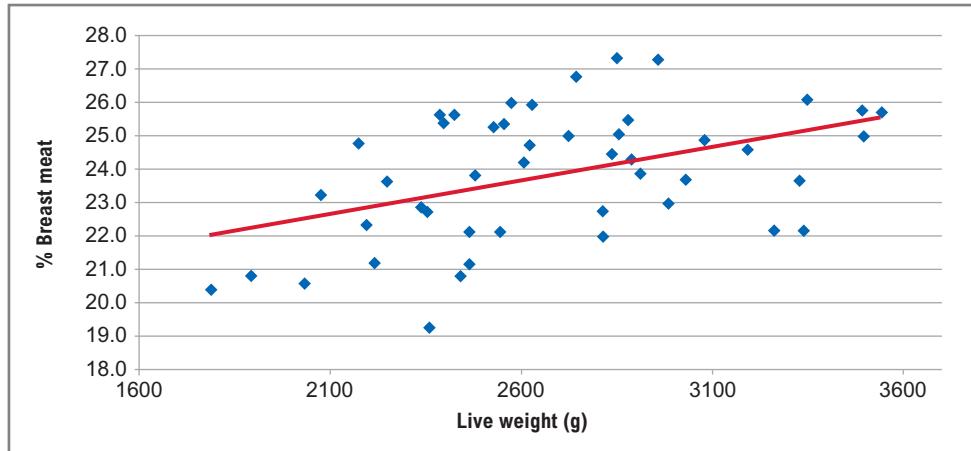
Supplementary levels of trace elements should always be reviewed to ensure total levels do not exceed those set in local legislation (e.g. EU 1334/2003).

# 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 live weight at any given age.



The graph above is a representative sample of percent breast meat yield (hot yields) for birds from a single flock of as-hatched broilers processed at 48 days.

## Feed, Yield, and Economics

- Cobb data has shown that protein and amino acids can be elevated by approximately 8 percent for the purpose of increasing breast meat yield, although higher feed cost per unit of live weight may be a secondary result.
- For the most economical feed per unit of live weight, lower amino acids may be more applicable, although slower growth rate and higher FCR may be a secondary result.
- The exact overall levels of amino acids should be determined by ingredient prices and finished product values (from the processing plant).
- The Cobb500 is a **flexible** broiler that can bring good costs from low amino acid density feeds, or will respond with accelerated growth and breast yield using high amino acid levels.
- Cobb Technical Service will gladly assist customers to match specific economic priorities with formulation; however, the recommendations in this supplement represent very sound overall baseline levels.

# Yield Performance

## Predicted hot yields at given weights (% of live weight)

### AS HATCHED

Weight g	Weight lb	% Eviscerated	% Breast Meat	% Whole Leg	% Wing
1588	3.50	71.06	22.70	22.34	7.57
1701	3.75	71.45	22.97	22.45	7.57
1928	4.25	72.19	23.50	22.68	7.57
2155	4.75	72.90	24.00	22.88	7.57
2381	5.25	73.56	24.49	23.07	7.57
2608	5.75	74.18	24.95	23.24	7.57
2835	6.25	74.76	25.40	23.39	7.58
3062	6.75	75.30	25.82	23.52	7.58
3289	7.25	75.79	26.23	23.63	7.58
3515	7.75	76.25	26.61	23.73	7.58
3742	8.25	76.66	26.97	23.81	7.59
3969	8.75	77.03	27.32	23.87	7.59
4196	9.25	77.35	27.64	23.91	7.60

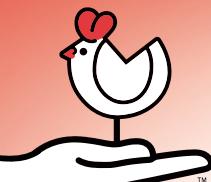
### FEMALES

Weight g	Weight lb	% Eviscerated	% Breast Meat	% Whole Leg	% Wing
1588	3.50	71.38	23.14	22.18	7.59
1701	3.75	71.81	23.46	22.28	7.59
1928	4.25	72.61	24.06	22.45	7.58
2155	4.75	73.36	24.64	22.60	7.57
2381	5.25	74.04	25.19	22.72	7.56
2608	5.75	74.65	25.72	22.82	7.54
2835	6.25	75.20	26.22	22.90	7.52
3062	6.75	75.69	26.68	22.95	7.50

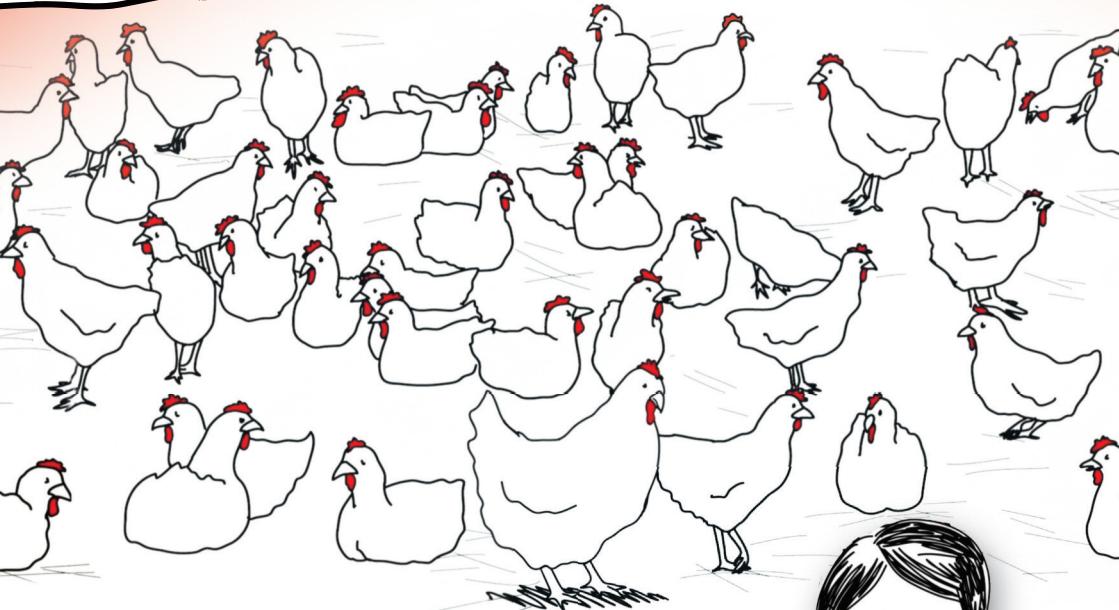
### MALES

Weight g	Weight lb	% Eviscerated	% Breast Meat	% Whole Leg	% Wing
1588	3.50	70.52	22.28	22.32	7.51
1701	3.75	70.92	22.49	22.49	7.52
1928	4.25	71.69	22.92	22.80	7.55
2155	4.75	72.43	23.34	23.10	7.57
2381	5.25	73.12	23.74	23.38	7.60
2608	5.75	73.78	24.14	23.63	7.62
2835	6.25	74.40	24.52	23.86	7.65
3062	6.75	74.99	24.89	24.07	7.68
3289	7.25	75.53	25.25	24.26	7.71
3515	7.75	76.04	25.60	24.43	7.74
3742	8.25	76.52	25.94	24.57	7.77
3969	8.75	76.95	26.27	24.70	7.81
4196	9.25	77.35	26.58	24.80	7.84
4423	9.75	77.72	26.89	24.88	7.88

Eviscerated carcass is calculated with feet and shanks removed from the hock joint.



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