

Broiler
Performance
& Nutrition
Supplement

Cobb700™

broiler

cobb-vantress.com



Introduction

This supplement presents broiler performance and yield targets for your Cobb700 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.

Cobb700 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	65	13				
3	79	14				
4	97	18				
5	118	21				
6	143	25				
7	171	28	24.4	0.860		147
8	201	30	25.1	0.884	31	178
9	234	33	26.0	0.909	35	213
10	270	36	27.0	0.933	39	252
11	310	40	28.2	0.957	45	297
12	353	43	29.4	0.982	50	347
13	398	45	30.6	1.006	54	400
14	446	48	31.9	1.030	59	459
15	498	52	33.2	1.054	66	525
16	554	56	34.6	1.078	72	597
17	613	59	36.1	1.103	79	676
18	675	62	37.5	1.127	85	761
19	740	65	38.9	1.151	91	852
20	808	68	40.4	1.176	98	950
21	878	70	41.8	1.200	103	1054
22	950	72	43.2	1.227	112	1166
23	1024	74	44.5	1.254	118	1284
24	1099	75	45.8	1.281	124	1408
25	1175	76	47.0	1.308	129	1537
26	1252	77	48.2	1.336	136	1673
27	1331	79	49.3	1.363	141	1814
28	1412	81	50.4	1.390	149	1963
29	1495	83	51.6	1.417	156	2118
30	1579	84	52.6	1.444	162	2280
31	1665	86	53.7	1.471	169	2449
32	1753	88	54.8	1.498	177	2626
33	1842	89	55.8	1.526	185	2811
34	1932	90	56.8	1.553	190	3000
35	2023	91	57.8	1.580	196	3196
36	2114	92	58.7	1.601	188	3385
37	2207	93	59.6	1.622	195	3580
38	2301	94	60.6	1.644	203	3783
39	2396	95	61.4	1.665	206	3989
40	2491	95	62.3	1.687	213	4202
41	2586	95	63.1	1.708	215	4417
42	2681	95	63.8	1.730	221	4638
43	2776	95	64.6	1.749	217	4855
44	2871	95	65.3	1.767	218	5073
45	2965	94	65.9	1.785	219	5293
46	3058	93	66.5	1.804	224	5517
47	3150	92	67.0	1.823	226	5742
48	3241	91	67.5	1.842	227	5970
49	3331	90	68.0	1.860	226	6196
50	3420	89	68.4	1.877	224	6419
51	3508	88	68.8	1.894	225	6644
52	3595	87	69.1	1.911	226	6870
53	3681	86	69.5	1.928	227	7097
54	3766	85	69.7	1.945	228	7325
55	3850	84	70.0	1.962	229	7554
56	3933	83	70.2	1.980	234	7787
57	4015	82	70.4	1.999	239	8026
58	4096	81	70.6	2.017	236	8262
59	4176	80	70.8	2.036	241	8502
60	4255	79	70.9	2.054	237	8740
61	4333	78	71.0	2.073	243	8982
62	4410	77	71.1	2.092	243	9226
63	4486	76	71.2	2.110	240	9465

Cobb700 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	42					
1	52	10				
2	65	13				
3	79	14				
4	97	18				
5	118	21				
6	143	25				
7	170	27	24.3	0.880		150
8	199	29	24.9	0.904	30	180
9	232	33	25.8	0.929	36	216
10	267	35	26.7	0.953	39	254
11	307	40	27.9	0.977	45	300
12	349	42	29.1	1.001	49	349
13	392	43	30.2	1.028	54	403
14	436	44	31.1	1.050	55	458
15	483	47	32.2	1.073	60	518
16	537	54	33.6	1.096	70	589
17	595	58	35.0	1.119	77	666
18	654	59	36.3	1.141	80	746
19	714	60	37.6	1.164	85	831
20	775	61	38.8	1.187	89	920
21	837	62	39.9	1.210	93	1013
22	903	66	41.0	1.239	106	1119
23	970	67	42.2	1.268	111	1230
24	1038	68	43.3	1.296	115	1345
25	1107	69	44.3	1.325	122	1467
26	1179	72	45.3	1.353	128	1595
27	1252	73	46.4	1.382	135	1730
28	1327	75	47.4	1.410	141	1871
29	1405	78	48.4	1.437	148	2019
30	1484	79	49.5	1.464	154	2173
31	1565	81	50.5	1.491	161	2333
32	1648	83	51.5	1.519	170	2503
33	1732	84	52.5	1.546	174	2678
34	1817	85	53.4	1.573	180	2858
35	1903	86	54.4	1.600	187	3045
36	1989	86	55.3	1.621	179	3224
37	2075	86	56.1	1.643	185	3409
38	2161	86	56.9	1.664	187	3596
39	2247	86	57.6	1.686	193	3788
40	2333	86	58.3	1.707	194	3982
41	2419	86	59.0	1.729	200	4182
42	2505	86	59.6	1.750	201	4384
43	2590	85	60.2	1.769	198	4582
44	2674	84	60.8	1.787	197	4778
45	2757	83	61.3	1.806	201	4979
46	2839	82	61.7	1.824	199	5178
47	2920	81	62.1	1.843	203	5382
48	3000	80	62.5	1.861	201	5583
49	3079	79	62.8	1.880	206	5789
50	3156	77	63.1	1.897	198	5987
51	3232	76	63.4	1.914	199	6186
52	3307	75	63.6	1.931	200	6386
53	3381	74	63.8	1.949	204	6590
54	3454	73	64.0	1.966	201	6791
55	3526	72	64.1	1.983	201	6992
56	3597	71	64.2	2.000	202	7194
57	3666	69	64.3	2.019	208	7402
58	3734	68	64.4	2.037	205	7606
59	3801	67	64.4	2.056	209	7815
60	3867	66	64.5	2.074	205	8020
61	3932	65	64.5	2.093	210	8230
62	3996	64	64.5	2.111	206	8436
63	4059	63	64.4	2.130	210	8646

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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	42					
1	52	10				
2	65	13				
3	79	14				
4	97	18				
5	118	21				
6	143	25				
7	172	29	24.6	0.840		144
8	203	31	25.4	0.864	31	175
9	236	33	26.2	0.886	34	209
10	273	37	27.3	0.913	40	249
11	313	40	28.5	0.937	44	293
12	357	44	29.8	0.961	50	343
13	404	47	31.1	0.986	55	398
14	456	52	32.6	1.010	62	461
15	513	57	34.2	1.036	71	531
16	571	58	35.7	1.061	74	606
17	631	60	37.1	1.087	80	686
18	696	65	38.7	1.113	89	775
19	766	70	40.3	1.139	98	872
20	841	75	42.1	1.164	106	979
21	918	77	43.7	1.190	113	1092
22	997	79	45.3	1.216	120	1212
23	1078	81	46.9	1.241	125	1338
24	1160	82	48.3	1.267	132	1470
25	1243	83	49.7	1.293	137	1607
26	1327	84	51.0	1.319	143	1750
27	1412	85	52.3	1.344	147	1898
28	1498	86	53.5	1.370	155	2052
29	1585	87	54.7	1.397	162	2214
30	1674	89	55.8	1.424	170	2384
31	1765	91	56.9	1.451	177	2561
32	1858	93	58.1	1.479	187	2748
33	1952	94	59.2	1.506	192	2940
34	2047	95	60.2	1.533	198	3138
35	2143	96	61.2	1.560	205	3343
36	2240	97	62.2	1.581	198	3541
37	2339	99	63.2	1.603	208	3749
38	2441	102	64.2	1.624	215	3964
39	2545	104	65.3	1.646	225	4189
40	2649	104	66.2	1.667	227	4416
41	2753	104	67.1	1.689	234	4650
42	2857	104	68.0	1.710	236	4885
43	2962	105	68.9	1.729	236	5121
44	3068	106	69.7	1.747	238	5360
45	3173	105	70.5	1.766	244	5604
46	3277	104	71.2	1.784	243	5846
47	3380	103	71.9	1.803	248	6094
48	3482	102	72.5	1.821	247	6341
49	3583	101	73.1	1.840	252	6593
50	3684	101	73.7	1.857	248	6841
51	3784	100	74.2	1.874	250	7091
52	3883	99	74.7	1.891	252	7343
53	3981	98	75.1	1.909	257	7600
54	4078	97	75.5	1.926	254	7854
55	4174	96	75.9	1.943	256	8110
56	4269	95	76.2	1.960	257	8367
57	4364	95	76.6	1.979	269	8636
58	4458	94	76.9	1.997	266	8903
59	4551	93	77.1	2.016	272	9175
60	4643	92	77.4	2.034	269	9444
61	4734	91	77.6	2.053	275	9719
62	4824	90	77.8	2.071	272	9991
63	4913	89	78.0	2.090	278	10268

Cobb700 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	0.143	0.029				
3	0.174	0.031				
4	0.214	0.040				
5	0.260	0.046				
6	0.315	0.055				
7	0.377	0.062	0.054	0.860		0.324
8	0.443	0.066	0.055	0.884	0.068	0.392
9	0.516	0.073	0.057	0.909	0.077	0.469
10	0.595	0.079	0.060	0.933	0.086	0.555
11	0.684	0.088	0.062	0.957	0.099	0.654
12	0.778	0.095	0.065	0.982	0.110	0.764
13	0.878	0.099	0.068	1.006	0.119	0.883
14	0.983	0.106	0.070	1.030	0.130	1.013
15	1.098	0.115	0.073	1.054	0.144	1.157
16	1.222	0.123	0.076	1.078	0.159	1.317
17	1.352	0.130	0.080	1.103	0.174	1.491
18	1.488	0.137	0.083	1.127	0.187	1.677
19	1.632	0.143	0.086	1.151	0.201	1.878
20	1.782	0.150	0.089	1.176	0.217	2.095
21	1.936	0.154	0.092	1.200	0.228	2.323
22	2.095	0.159	0.095	1.227	0.247	2.570
23	2.258	0.163	0.098	1.254	0.261	2.831
24	2.423	0.165	0.101	1.281	0.273	3.104
25	2.591	0.168	0.104	1.308	0.285	3.389
26	2.761	0.170	0.106	1.336	0.299	3.688
27	2.935	0.174	0.109	1.363	0.312	4.000
28	3.113	0.179	0.111	1.390	0.328	4.328
29	3.296	0.183	0.114	1.417	0.343	4.671
30	3.482	0.185	0.116	1.444	0.356	5.028
31	3.671	0.190	0.118	1.471	0.373	5.401
32	3.865	0.194	0.121	1.498	0.390	5.790
33	4.062	0.196	0.123	1.526	0.408	6.198
34	4.260	0.198	0.125	1.553	0.418	6.616
35	4.461	0.201	0.127	1.580	0.432	7.048
36	4.661	0.203	0.129	1.601	0.415	7.463
37	4.866	0.205	0.132	1.622	0.431	7.893
38	5.074	0.207	0.134	1.644	0.448	8.341
39	5.283	0.209	0.135	1.665	0.455	8.796
40	5.493	0.209	0.137	1.687	0.470	9.266
41	5.702	0.209	0.139	1.708	0.473	9.739
42	5.912	0.209	0.141	1.730	0.488	10.227
43	6.121	0.209	0.142	1.749	0.479	10.706
44	6.331	0.209	0.144	1.767	0.480	11.186
45	6.538	0.207	0.145	1.785	0.484	11.670
46	6.743	0.205	0.147	1.804	0.494	12.164
47	6.946	0.203	0.148	1.823	0.498	12.662
48	7.146	0.201	0.149	1.842	0.502	13.164
49	7.345	0.198	0.150	1.860	0.498	13.661
50	7.541	0.196	0.151	1.877	0.493	14.155
51	7.735	0.194	0.152	1.894	0.496	14.650
52	7.927	0.192	0.152	1.911	0.498	15.148
53	8.117	0.190	0.153	1.928	0.500	15.649
54	8.304	0.187	0.154	1.945	0.503	16.151
55	8.489	0.185	0.154	1.962	0.505	16.656
56	8.672	0.183	0.155	1.980	0.515	17.171
57	8.853	0.181	0.155	1.999	0.526	17.697
58	9.032	0.179	0.156	2.017	0.520	18.217
59	9.208	0.176	0.156	2.036	0.531	18.748
60	9.382	0.174	0.156	2.054	0.524	19.271
61	9.554	0.172	0.157	2.073	0.535	19.806
62	9.724	0.170	0.157	2.092	0.537	20.343
63	9.892	0.168	0.157	2.110	0.529	20.871

Cobb700 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	0.093					
1	0.115	0.022				
2	0.143	0.029				
3	0.174	0.031				
4	0.214	0.040				
5	0.260	0.046				
6	0.315	0.055				
7	0.375	0.060	0.054	0.880		0.330
8	0.439	0.064	0.055	0.904	0.067	0.397
9	0.512	0.073	0.057	0.929	0.079	0.475
10	0.589	0.077	0.059	0.953	0.086	0.561
11	0.677	0.088	0.062	0.977	0.100	0.661
12	0.770	0.093	0.064	1.001	0.109	0.770
13	0.864	0.095	0.066	1.028	0.118	0.889
14	0.961	0.097	0.069	1.050	0.121	1.009
15	1.065	0.104	0.071	1.073	0.133	1.143
16	1.184	0.119	0.074	1.096	0.155	1.298
17	1.312	0.128	0.077	1.119	0.170	1.468
18	1.442	0.130	0.080	1.141	0.177	1.645
19	1.574	0.132	0.083	1.164	0.187	1.833
20	1.709	0.135	0.085	1.187	0.196	2.028
21	1.846	0.137	0.088	1.210	0.205	2.233
22	1.991	0.146	0.091	1.239	0.234	2.467
23	2.139	0.148	0.093	1.268	0.245	2.712
24	2.289	0.150	0.095	1.296	0.254	2.966
25	2.441	0.152	0.098	1.325	0.268	3.234
26	2.600	0.159	0.100	1.353	0.283	3.517
27	2.761	0.161	0.102	1.382	0.298	3.815
28	2.926	0.165	0.105	1.410	0.310	4.126
29	3.098	0.172	0.107	1.437	0.326	4.452
30	3.272	0.174	0.109	1.464	0.339	4.791
31	3.451	0.179	0.111	1.491	0.355	5.145
32	3.634	0.183	0.114	1.519	0.375	5.520
33	3.819	0.185	0.116	1.546	0.384	5.904
34	4.006	0.187	0.118	1.573	0.398	6.302
35	4.196	0.190	0.120	1.600	0.412	6.714
36	4.386	0.190	0.122	1.621	0.396	7.109
37	4.575	0.190	0.124	1.643	0.408	7.517
38	4.765	0.190	0.125	1.664	0.412	7.929
39	4.955	0.190	0.127	1.686	0.425	8.354
40	5.144	0.190	0.129	1.707	0.428	8.781
41	5.334	0.190	0.130	1.729	0.441	9.222
42	5.524	0.190	0.132	1.750	0.444	9.666
43	5.711	0.187	0.133	1.769	0.437	10.103
44	5.896	0.185	0.134	1.787	0.434	10.536
45	6.079	0.183	0.135	1.806	0.443	10.979
46	6.260	0.181	0.136	1.824	0.439	11.418
47	6.439	0.179	0.137	1.843	0.448	11.866
48	6.615	0.176	0.138	1.861	0.444	12.311
49	6.789	0.174	0.139	1.880	0.453	12.764
50	6.959	0.170	0.139	1.897	0.437	13.201
51	7.127	0.168	0.140	1.914	0.439	13.640
52	7.292	0.165	0.140	1.931	0.440	14.081
53	7.455	0.163	0.141	1.949	0.449	14.530
54	7.616	0.161	0.141	1.966	0.443	14.973
55	7.775	0.159	0.141	1.983	0.444	15.417
56	7.931	0.157	0.142	2.000	0.445	15.863
57	8.084	0.152	0.142	2.019	0.458	16.321
58	8.233	0.150	0.142	2.037	0.451	16.772
59	8.381	0.148	0.142	2.056	0.460	17.232
60	8.527	0.146	0.142	2.074	0.453	17.684
61	8.670	0.143	0.142	2.093	0.462	18.146
62	8.811	0.141	0.142	2.111	0.454	18.600
63	8.950	0.139	0.142	2.130	0.463	19.064

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Performance objectives - imperial

MALES						
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0	0.093					
1	0.115	0.022				
2	0.143	0.029				
3	0.174	0.031				
4	0.214	0.040				
5	0.260	0.046				
6	0.315	0.055				
7	0.379	0.064	0.054	0.840		0.319
8	0.448	0.068	0.056	0.864	0.097	0.387
9	0.520	0.073	0.058	0.886	0.101	0.461
10	0.602	0.082	0.060	0.913	0.110	0.550
11	0.690	0.088	0.063	0.937	0.126	0.647
12	0.787	0.097	0.066	0.961	0.139	0.756
13	0.891	0.104	0.069	0.986	0.152	0.878
14	1.005	0.115	0.072	1.010	0.168	1.016
15	1.131	0.126	0.075	1.036	0.192	1.172
16	1.259	0.128	0.079	1.061	0.194	1.336
17	1.391	0.132	0.082	1.087	0.209	1.512
18	1.535	0.143	0.085	1.113	0.218	1.708
19	1.689	0.154	0.089	1.139	0.232	1.924
20	1.854	0.165	0.093	1.164	0.245	2.159
21	2.024	0.170	0.096	1.190	0.260	2.409
22	2.198	0.174	0.100	1.216	0.287	2.673
23	2.377	0.179	0.103	1.241	0.289	2.950
24	2.558	0.181	0.107	1.267	0.304	3.241
25	2.741	0.183	0.110	1.293	0.320	3.544
26	2.926	0.185	0.113	1.319	0.331	3.859
27	3.113	0.187	0.115	1.344	0.344	4.184
28	3.303	0.190	0.118	1.370	0.351	4.525
29	3.495	0.192	0.121	1.397	0.366	4.882
30	3.691	0.196	0.123	1.424	0.370	5.256
31	3.892	0.201	0.126	1.451	0.379	5.647
32	4.097	0.205	0.128	1.479	0.390	6.059
33	4.304	0.207	0.130	1.506	0.399	6.482
34	4.514	0.209	0.133	1.533	0.410	6.919
35	4.725	0.212	0.135	1.560	0.421	7.371
36	4.939	0.214	0.137	1.581	0.423	7.809
37	5.157	0.218	0.139	1.603	0.443	8.267
38	5.382	0.225	0.142	1.624	0.456	8.741
39	5.612	0.229	0.144	1.646	0.465	9.237
40	5.841	0.229	0.146	1.667	0.474	9.737
41	6.070	0.229	0.148	1.689	0.483	10.253
42	6.300	0.229	0.150	1.710	0.485	10.772
43	6.531	0.232	0.152	1.729	0.490	11.292
44	6.765	0.234	0.154	1.747	0.496	11.818
45	6.996	0.232	0.155	1.766	0.501	12.356
46	7.226	0.229	0.157	1.784	0.505	12.891
47	7.453	0.227	0.159	1.803	0.512	13.438
48	7.678	0.225	0.160	1.821	0.514	13.981
49	7.901	0.223	0.161	1.840	0.518	14.537
50	8.123	0.223	0.162	1.857	0.520	15.085
51	8.344	0.221	0.164	1.874	0.523	15.636
52	8.562	0.218	0.165	1.891	0.525	16.191
53	8.778	0.216	0.166	1.909	0.529	16.757
54	8.992	0.214	0.167	1.926	0.529	17.319
55	9.204	0.212	0.167	1.943	0.529	17.883
56	9.413	0.209	0.168	1.960	0.531	18.450
57	9.623	0.209	0.169	1.979	0.531	19.043
58	9.830	0.207	0.169	1.997	0.531	19.630
59	10.035	0.205	0.170	2.016	0.531	20.230
60	10.238	0.203	0.171	2.034	0.531	20.824
61	10.438	0.201	0.171	2.053	0.531	21.430
62	10.637	0.198	0.172	2.071	0.531	22.029
63	10.833	0.196	0.172	2.090	0.531	22.641

Cobb700 Broiler Performance & Nutrition Supplement

Broiler Nutrition

Recommended minimum specifications

		Starter	Grower	Finisher 1	Finisher 2*
FEEDING AMOUNT/bird		250 g 0.55 lb	1000 g 2.20 lb		
FEEDING PERIOD days		0 - 10	11 - 22	23 - 42	43 +
FEED STRUCTURE		Crumb	Pellet	Pellet	Pellet
Crude Protein	%	22	20	19	18
Metabolizable energy	MJ/kg	12.70	13.00	13.30	13.40
	Kcal/kg	3035	3108	3180	3203
	Kcal/lb	1380	1410	1442	1453
Lysine	%	1.36	1.23	1.08	1.03
Digestible Lysine	%	1.22	1.08	0.98	0.93
Methionine	%	0.52	0.49	0.44	0.42
Digestible Methionine	%	0.46	0.43	0.40	0.38
Met + Cys	%	1.01	0.92	0.84	0.80
Digestible Met + Cys	%	0.91	0.82	0.76	0.72
Tryptophan	%	0.21	0.20	0.20	0.19
Digestible Tryptophan	%	0.19	0.18	0.18	0.17
Threonine	%	0.89	0.80	0.73	0.70
Digestible Threonine	%	0.79	0.71	0.67	0.63
Arginine	%	1.42	1.29	1.16	1.11
Digestible Arginine	%	1.28	1.13	1.06	1.00
Valine	%	1.03	0.94	0.83	0.79
Digestible Valine	%	0.92	0.83	0.75	0.71
Calcium	%	0.90	0.84	0.76	0.76
Available Phosphorus	%	0.45	0.42	0.38	0.38
Sodium	%	0.16-0.23	0.16-0.23	0.15-0.23	0.15-0.23
Chloride	%	0.17-0.35	0.16-0.35	0.15-0.35	0.15-0.35
Potassium	%	0.60-0.95	0.60-0.85	0.60-0.80	0.60-0.80
Linoleic Acid	%	1.00	1.00	1.00	1.00

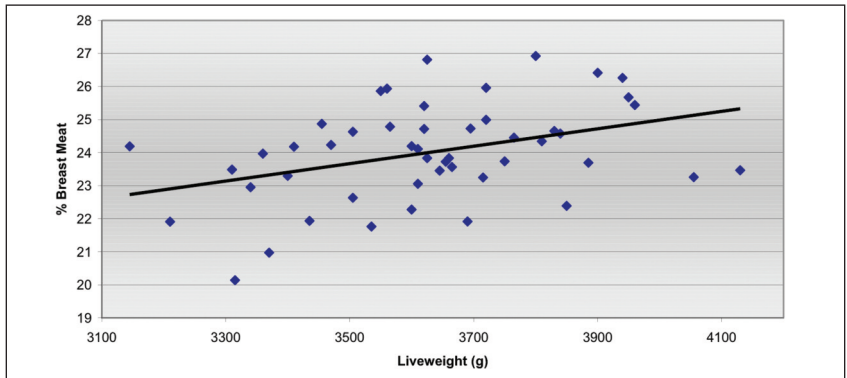
* Should withdrawal feed be required use same finisher specification.

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	52	3595 (7.92)	79.50
A/H	49	3599 (7.93)	79.00
Difference	3	-4	0.50

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 yield increase in breast meat yield as a percent of live weight.

Yield Performance

Predicted carcass yields at given weights

AS HATCHED						
Weight		% Carcass	% Total Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
2200	4.851	74.3	23.24	14.05	8.50	8.20
2400	5.292	75.0	23.75	14.11	8.57	8.15
2600	5.733	75.8	24.41	14.17	8.64	8.09
2800	6.174	76.7	24.98	14.23	8.70	8.04
3000	6.615	77.3	25.31	14.30	8.77	7.98
3200	7.056	78.0	25.88	14.36	8.84	7.93
3400	7.497	78.7	26.55	14.43	8.91	7.87
3600	7.938	79.3	27.20	14.49	8.98	7.82
3800	8.379	80.0	27.60	14.56	9.05	7.76
4000	8.820	80.7	28.00	14.62	9.11	7.71
4200	9.261	81.4	28.40	14.68	9.18	7.66
4400	9.702	82.0	28.80	14.75	9.25	7.60

FEMALES						
Weight		% Carcass	% Boneless Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
2200	4.851	74.4	23.34	14.30	8.30	8.26
2400	5.292	75.1	23.85	14.36	8.37	8.21
2600	5.733	75.9	24.51	14.42	8.44	8.15
2800	6.174	76.8	25.08	14.48	8.50	8.10
3000	6.615	77.4	25.41	14.55	8.57	8.04
3200	7.056	78.1	25.98	14.61	8.64	7.99
3400	7.497	78.8	26.65	14.68	8.71	7.92
3600	7.938	79.4	27.30	14.74	8.78	7.88
3800	8.379	80.1	27.70	14.81	8.85	7.82
4000	8.820	80.8	28.10	14.87	8.91	7.77

MALES						
Weight		% Carcass	% Boneless Breast	% Whole Thigh	% Whole Drum Stick	% Wing
g	lb					
2400	5.292	74.9	23.65	13.86	8.77	8.09
2600	5.733	75.7	24.31	13.92	8.84	8.03
2800	6.174	76.6	24.88	13.98	8.90	7.98
3000	6.615	77.2	25.21	14.05	8.97	7.92
3200	7.056	77.9	25.78	14.11	9.04	7.87
3400	7.497	78.6	26.45	14.18	9.11	7.81
3600	7.938	79.2	27.10	14.24	9.18	7.76
3800	8.379	79.9	27.50	14.31	9.25	7.70
4000	8.820	80.6	27.90	14.37	9.31	7.65
4200	9.261	81.3	28.30	14.43	9.38	7.60
4400	9.702	81.9	28.70	14.49	9.45	7.54
4600	10.143	82.4	29.10	14.55	9.52	7.49
4800	10.584	82.9	29.50	14.61	9.59	7.44

- All yield values are based on water-chilled carcasses.
- Eviscerated carcass is based on feet and shanks removed.
- % Total breast is boneless percentage of live weight.

Cobb700 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	75	78	78
Tryptophan	16	16	18	18
Threonine	65	65	62	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).

