Broiler

Cobb500™

Broiler Performance & Nutrition Supplement

COBB-VANTRESS.COM

Cobb®

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.

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.

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					
7	**193**	**33**	**28.0**	**0.76**		**145**
8	228	39	29.2	0.80	37	182
9	269	42	30.6	0.84	43	225
10	313	46	32.1	0.88	50	275
11	362	50	33.7	0.92	57	331
12	414	54	35.2	0.95	64	395
13	469	57	36.9	1.00	72	467
14	**528**	**60**	**38.5**	**1.03**	**74**	**541**
15	589	63	40.1	1.05	78	619
16	654	66	41.6	1.08	85	704
17	722	69	43.2	1.10	91	795
18	792	71	44.7	1.13	103	898
19	865	74	46.2	1.16	110	1007
20	941	76	47.7	1.19	114	1121
21	**1018**	**79**	**49.1**	**1.22**	**118**	**1239**
22	1098	81	50.5	1.24	123	1362
23	1180	83	51.9	1.26	128	1489
24	1264	84	53.2	1.28	133	1622
25	1349	86	54.5	1.30	137	1759
26	1436	88	55.8	1.33	144	1903
27	1525	89	57.0	1.35	150	2054
28	**1615**	**90**	**58.2**	**1.37**	**156**	**2209**
29	1706	92	59.3	1.39	160	2369
30	1798	93	60.4	1.41	164	2533
31	1892	94	61.5	1.43	167	2700
32	1986	94	62.5	1.45	170	2870
33	2081	95	63.4	1.46	174	3043
34	2177	96	64.4	1.48	177	3220
35	**2273**	**96**	**65.3**	**1.50**	**179**	**3399**
36	2369	97	66.1	1.51	182	3581
37	2466	97	67.0	1.53	186	3767
38	2563	97	67.8	1.54	190	3958
39	2661	97	68.5	1.56	193	4151
40	2758	97	69.2	1.58	197	4348
41	2855	97	69.9	1.59	203	4552
42	**2952**	**97**	**70.5**	**1.61**	**208**	**4760**
43	3049	96	71.1	1.63	213	4973
44	3145	96	71.7	1.65	218	5191
45	3240	95	72.2	1.67	224	5414
46	3335	95	72.7	1.69	228	5642
47	3430	94	73.1	1.71	231	5873
48	3524	93	73.6	1.73	236	6109
49	**3617**	**91**	**73.9**	**1.76**	**241**	**6349**
50	3707	90	74.2	1.78	243	6592
51	3797	89	74.5	1.80	244	6835
52	3885	88	74.8	1.82	245	7080
53	3973	87	75.0	1.84	247	7326
54	4059	86	75.2	1.87	247	7573
55	4144	85	75.4	1.89	246	7819
56	**4227**	**83**	**75.5**	**1.91**	**245**	**8063**
57	4309	81	75.6	1.93	243	8306
58	4389	79	75.7	1.95	241	8547
59	4466	77	75.7	1.97	239	8786
60	4542	76	75.7	1.99	237	9022
61	4616	74	75.7	2.01	234	9256
62	4688	72	75.6	2.02	232	9488
63	**4759**	**70**	**75.5**	**2.04**	**228**	**9716**

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					
7	**191**	**36**	**28.3**	**0.76**		**145**
8	227	40	29.7	0.80	36	181
9	267	43	31.0	0.84	43	224
10	310	48	32.6	0.88	50	274
11	358	51	34.1	0.92	56	330
12	409	54	35.7	0.96	63	393
13	464	58	37.2	1.00	70	463
14	**521**	**60**	**38.8**	**1.03**	**72**	**535**
15	582	63	40.3	1.05	76	611
16	645	66	41.8	1.08	83	694
17	711	68	43.3	1.10	89	783
18	779	70	44.7	1.13	98	881
19	849	72	46.1	1.16	107	988
20	921	74	47.4	1.19	112	1100
21	**995**	**76**	**48.7**	**1.22**	**115**	**1215**
22	1071	77	49.9	1.25	120	1335
23	1148	79	51.1	1.27	124	1459
24	1227	80	52.3	1.29	128	1587
25	1307	81	53.4	1.31	131	1718
26	1389	82	54.5	1.34	137	1855
27	1471	83	55.5	1.36	143	1998
28	**1554**	**84**	**56.5**	**1.38**	**148**	**2146**
29	1638	85	57.4	1.40	151	2297
30	1723	85	58.3	1.42	154	2451
31	1808	86	59.2	1.44	156	2607
32	1894	86	60.0	1.46	159	2766
33	1980	86	60.8	1.48	162	2928
34	2067	87	61.5	1.50	164	3092
35	**2153**	**87**	**62.2**	**1.51**	**166**	**3258**
36	2240	87	62.9	1.53	169	3427
37	2327	87	63.5	1.55	172	3599
38	2413	86	64.1	1.56	177	3776
39	2500	86	64.6	1.58	179	3955
40	2586	86	65.2	1.60	183	4138
41	2672	85	65.6	1.62	189	4327
42	**2757**	**85**	**66.1**	**1.64**	**193**	**4520**
43	2843	84	66.5	1.66	198	4718
44	2927	84	66.9	1.68	202	4920
45	3011	83	67.3	1.70	208	5128
46	3094	83	67.6	1.73	212	5340
47	3177	83	67.9	1.75	215	5555
48	3260	82	68.2	1.77	220	5775
49	**3342**	**79**	**68.4**	**1.80**	**225**	**6000**
50	3421	78	68.6	1.82	226	6226
51	3498	77	68.8	1.84	225	6451
52	3576	77	68.9	1.87	224	6675
53	3652	76	69.0	1.89	224	6899
54	3728	75	69.2	1.91	223	7122
55	3804	75	69.3	1.93	221	7343
56	**3878**	**73**	**69.3**	**1.95**	**219**	**7562**
57	3952	73	69.4	1.97	217	7779
58	4024	70	69.4	1.99	216	7995
59	4094	70	69.4	2.01	214	8209
60	4164	69	69.4	2.02	213	8422
61	4233	69	69.4	2.04	211	8633
62	4302	68	69.4	2.06	209	8842
63	**4370**	**68**	**69.4**	**2.07**	**207**	**9049**

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					
7	**194**	**29**	**27.6**	**0.75**		**146**
8	230	37	28.8	0.79	37	183
9	271	41	30.1	0.83	43	226
10	316	45	31.6	0.87	50	276
11	365	49	33.2	0.91	57	333
12	418	53	34.8	0.95	64	397
13	474	56	36.5	0.99	74	471
14	**534**	**60**	**38.1**	**1.02**	**76**	**547**
15	597	63	39.8	1.05	80	627
16	664	67	41.5	1.08	87	714
17	733	70	43.1	1.10	93	807
18	806	73	44.8	1.13	107	914
19	882	76	46.4	1.16	112	1027
20	960	79	48.0	1.19	116	1143
21	**1042**	**81**	**49.6**	**1.21**	**120**	**1263**
22	1125	84	51.2	1.23	125	1388
23	1212	86	52.7	1.25	131	1519
24	1300	89	54.2	1.27	138	1657
25	1391	91	55.6	1.29	143	1800
26	1484	93	57.1	1.32	151	1951
27	1579	95	58.5	1.34	158	2109
28	**1675**	**97**	**59.8**	**1.36**	**164**	**2273**
29	1774	98	61.2	1.38	169	2441
30	1874	100	62.5	1.40	173	2615
31	1975	101	63.7	1.41	177	2792
32	2078	103	64.9	1.43	181	2973
33	2182	104	66.1	1.45	185	3159
34	2286	105	67.2	1.46	189	3348
35	**2392**	**106**	**68.3**	**1.48**	**192**	**3540**
36	2499	107	69.4	1.49	195	3735
37	2606	107	70.4	1.51	200	3935
38	2714	108	71.4	1.53	204	4139
39	2822	108	72.4	1.54	208	4347
40	2930	108	73.3	1.56	212	4559
41	3038	108	74.1	1.57	218	4776
42	**3147**	**108**	**74.9**	**1.59**	**223**	**4999**
43	3255	108	75.7	1.61	229	5228
44	3363	108	76.4	1.62	234	5461
45	3470	107	77.1	1.64	239	5701
46	3577	107	77.8	1.66	243	5944
47	3682	106	78.3	1.68	247	6191
48	3787	105	78.9	1.70	251	6443
49	**3891**	**104**	**79.4**	**1.72**	**256**	**6699**
50	3994	103	79.9	1.74	259	6958
51	4095	101	80.3	1.76	262	7220
52	4195	100	80.7	1.78	265	7485
53	4293	98	81.0	1.81	269	7754
54	4389	96	81.3	1.83	270	8024
55	4484	94	81.5	1.85	271	8295
56	**4576**	**92**	**81.7**	**1.87**	**270**	**8565**
57	4666	90	81.9	1.89	268	8833
58	4753	87	81.9	1.91	266	9099
59	4838	85	82.0	1.94	264	9363
60	4920	82	82.0	1.96	260	9623
61	4999	79	81.9	1.98	257	9880
62	5075	76	81.9	2.00	254	10134
63	**5148**	**73**	**81.7**	**2.02**	**249**	**10383**

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					
7	**0.425**	**0.072**	**0.062**	**0.76**		**0.321**
8	0.504	0.085	0.064	0.80	0.095	0.401
9	0.593	0.093	0.067	0.84	0.110	0.496
10	0.691	0.102	0.071	0.88	0.125	0.606
11	0.797	0.110	0.074	0.92	0.140	0.731
12	0.912	0.118	0.078	0.95	0.159	0.871
13	1.034	0.125	0.081	1.00	0.163	1.029
14	**1.163**	**0.133**	**0.085**	**1.03**	**0.172**	**1.193**
15	1.299	0.139	0.088	1.05	0.187	1.364
16	1.442	0.146	0.092	1.08	0.201	1.552
17	1.592	0.152	0.095	1.10	0.226	1.753
18	1.747	0.158	0.099	1.13	0.242	1.979
19	1.908	0.163	0.102	1.16	0.251	2.221
20	2.074	0.168	0.105	1.19	0.259	2.472
21	**2.245**	**0.173**	**0.108**	**1.22**	**0.270**	**2.731**
22	2.421	0.178	0.111	1.24	0.281	3.002
23	2.602	0.182	0.114	1.26	0.293	3.283
24	2.786	0.186	0.117	1.28	0.302	3.576
25	2.975	0.190	0.120	1.30	0.318	3.878
26	3.167	0.193	0.123	1.33	0.331	4.196
27	3.362	0.196	0.126	1.35	0.343	4.527
28	**3.560**	**0.199**	**0.128**	**1.37**	**0.352**	**4.871**
29	3.761	0.202	0.131	1.39	0.361	5.223
30	3.965	0.204	0.133	1.41	0.367	5.584
31	4.171	0.206	0.135	1.43	0.375	5.952
32	4.378	0.208	0.138	1.45	0.383	6.327
33	4.588	0.210	0.140	1.46	0.389	6.709
34	4.798	0.211	0.142	1.48	0.395	7.099
35	**5.011**	**0.212**	**0.144**	**1.50**	**0.401**	**7.493**
36	5.224	0.213	0.146	1.51	0.410	7.895
37	5.437	0.214	0.148	1.53	0.420	8.305
38	5.651	0.214	0.149	1.54	0.426	8.725
39	5.866	0.214	0.151	1.56	0.435	9.151
40	6.080	0.214	0.153	1.58	0.448	9.587
41	6.295	0.213	0.154	1.59	0.458	10.035
42	**6.508**	**0.213**	**0.155**	**1.61**	**0.470**	**10.493**
43	6.721	0.212	0.157	1.63	0.480	10.963
44	6.933	0.211	0.158	1.65	0.493	11.443
45	7.143	0.210	0.159	1.67	0.502	11.937
46	7.353	0.209	0.160	1.69	0.510	12.439
47	7.562	0.208	0.161	1.71	0.519	12.948
48	7.769	0.206	0.162	1.73	0.530	13.468
49	**7.973**	**0.201**	**0.163**	**1.76**	**0.535**	**13.998**
50	8.173	0.199	0.164	1.78	0.537	14.533
51	8.370	0.197	0.164	1.80	0.539	15.070
52	8.565	0.194	0.165	1.82	0.543	15.609
53	8.758	0.192	0.165	1.84	0.543	16.152
54	8.948	0.189	0.166	1.87	0.542	16.696
55	9.135	0.186	0.166	1.89	0.539	17.238
56	**9.319**	**0.182**	**0.166**	**1.91**	**0.535**	**17.777**
57	9.499	0.179	0.167	1.93	0.531	18.312
58	9.675	0.174	0.167	1.95	0.527	18.843
59	9.846	0.170	0.167	1.97	0.521	19.370
60	10.013	0.166	0.167	1.99	0.516	19.891
61	10.176	0.163	0.167	2.01	0.510	20.407
62	10.336	0.159	0.167	2.02	0.503	20.917
63	**10.491**	**0.155**	**0.167**	**2.04**	**0.495**	**21.420**

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					
7	**0.421**	**0.080**	**0.062**	**0.76**		**0.320**
8	0.500	0.089	0.065	0.80	0.095	0.399
9	0.589	0.096	0.068	0.84	0.110	0.494
10	0.684	0.105	0.072	0.88	0.123	0.604
11	0.790	0.113	0.075	0.92	0.139	0.728
12	0.902	0.120	0.079	0.96	0.154	0.867
13	1.022	0.127	0.082	1.00	0.159	1.021
14	**1.149**	**0.133**	**0.086**	**1.03**	**0.168**	**1.180**
15	1.283	0.139	0.089	1.05	0.183	1.347
16	1.422	0.145	0.092	1.08	0.196	1.530
17	1.566	0.150	0.095	1.10	0.216	1.727
18	1.716	0.155	0.098	1.13	0.236	1.943
19	1.871	0.159	0.102	1.16	0.247	2.179
20	2.031	0.163	0.104	1.19	0.254	2.425
21	**2.194**	**0.167**	**0.107**	**1.22**	**0.265**	**2.679**
22	2.361	0.171	0.110	1.25	0.273	2.944
23	2.532	0.174	0.113	1.27	0.282	3.217
24	2.706	0.177	0.115	1.29	0.289	3.499
25	2.882	0.179	0.118	1.31	0.302	3.788
26	3.062	0.182	0.120	1.34	0.315	4.090
27	3.243	0.184	0.122	1.36	0.326	4.405
28	**3.427**	**0.185**	**0.125**	**1.38**	**0.333**	**4.731**
29	3.612	0.187	0.127	1.40	0.340	5.064
30	3.799	0.188	0.129	1.42	0.344	5.404
31	3.987	0.189	0.131	1.44	0.351	5.748
32	4.176	0.190	0.132	1.46	0.357	6.098
33	4.366	0.190	0.134	1.48	0.362	6.455
34	4.556	0.191	0.136	1.50	0.366	6.817
35	**4.747**	**0.191**	**0.137**	**1.51**	**0.373**	**7.183**
36	4.938	0.191	0.139	1.53	0.379	7.555
37	5.129	0.191	0.140	1.55	0.390	7.935
38	5.320	0.191	0.141	1.56	0.395	8.325
39	5.511	0.190	0.143	1.58	0.403	8.719
40	5.701	0.190	0.144	1.60	0.417	9.123
41	5.891	0.188	0.145	1.62	0.425	9.539
42	**6.079**	**0.188**	**0.146**	**1.64**	**0.437**	**9.965**
43	6.267	0.186	0.147	1.66	0.445	10.401
44	6.453	0.184	0.147	1.68	0.459	10.847
45	6.637	0.184	0.148	1.70	0.467	11.305
46	6.821	0.184	0.149	1.73	0.474	11.773
47	7.005	0.183	0.150	1.75	0.485	12.247
48	7.188	0.180	0.150	1.77	0.496	12.732
49	**7.368**	**0.173**	**0.151**	**1.80**	**0.498**	**13.228**
50	7.541	0.172	0.151	1.82	0.496	13.726
51	7.713	0.170	0.152	1.84	0.494	14.222
52	7.883	0.169	0.152	1.87	0.494	14.716
53	8.052	0.168	0.152	1.89	0.492	15.210
54	8.219	0.166	0.152	1.91	0.487	15.701
55	8.385	0.165	0.153	1.93	0.483	16.189
56	**8.550**	**0.161**	**0.153**	**1.95**	**0.478**	**16.671**
57	8.712	0.160	0.153	1.97	0.476	17.150
58	8.872	0.155	0.153	1.99	0.472	17.626
59	9.026	0.153	0.153	2.01	0.470	18.098
60	9.180	0.152	0.153	2.02	0.465	18.567
61	9.332	0.152	0.153	2.04	0.461	19.033
62	9.484	0.150	0.153	2.06	0.456	19.493
63	**9.634**	**0.150**	**0.153**	**2.07**	**0.450**	**19.950**

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					
7	**0.428**	**0.064**	**0.061**	**0.75**		**0.321**
8	0.508	0.081	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
14	**1.177**	**0.132**	**0.084**	**1.02**	**0.176**	**1.205**
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
21	**2.296**	**0.179**	**0.109**	**1.21**	**0.276**	**2.784**
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
28	**3.693**	**0.213**	**0.132**	**1.36**	**0.372**	**5.010**
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
35	**5.274**	**0.233**	**0.151**	**1.48**	**0.430**	**7.804**
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
42	**6.937**	**0.239**	**0.165**	**1.59**	**0.504**	**11.021**
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
49	**8.579**	**0.229**	**0.175**	**1.72**	**0.571**	**14.768**
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
56	**10.088**	**0.203**	**0.180**	**1.87**	**0.591**	**18.882**
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
63	**11.349**	**0.161**	**0.180**	**2.02**	**0.540**	**22.890**

Broiler Nutrition

Nutrient Recommendations

		Starter	Grower	Finisher 1	Finisher 2*
FEEDING AMOUNT/bird		**180 g 0.40 lb**	**700 g 1.54 lb**	**1350 g 3.0 lb**	
FEEDING PERIOD days		**0 - 8**	**9 - 18**	**19 - 28**	**> 29**
FEED STRUCTURE		**Crumble**	**Crumble / Pellet**	**Pellet**	**Pellet**
Crude Protein	%	21-22	19-20	18-19	17-18
Metabolizable energy (AMEn†)	MJ/kg Kcal/kg Kcal/lb	12.45 2,975 1,349	12.66 3,025 1,372	12.97 3,100 1,406	13.18 3,150 1,429
Digestible Lysine	%	1.22	1.12	1.02	0.97
Digestible Methionine	%	0.46	0.45	0.42	0.40
Digestible Met + Cys	%	0.91	0.85	0.80	0.76
Digestible Tryptophan	%	0.20	0.18	0.18	0.17
Digestible Threonine	%	0.83	0.73	0.66	0.63
Digestible Arginine	%	1.28	1.18	1.07	1.02
Digestible Valine	%	0.89	0.85	0.76	0.73
Digestible Isoleucine	%	0.77	0.72	0.67	0.64
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	0.16-0.23	0.16-0.23
Chloride	%	0.16-0.30	0.16-0.30	0.16-0.30	0.16-0.30
Potassium	%	0.60-0.95	0.60-0.95	0.60-0.95	0.60-0.95
Linoleic Acid	%	1.00	1.00	1.00	1.00

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

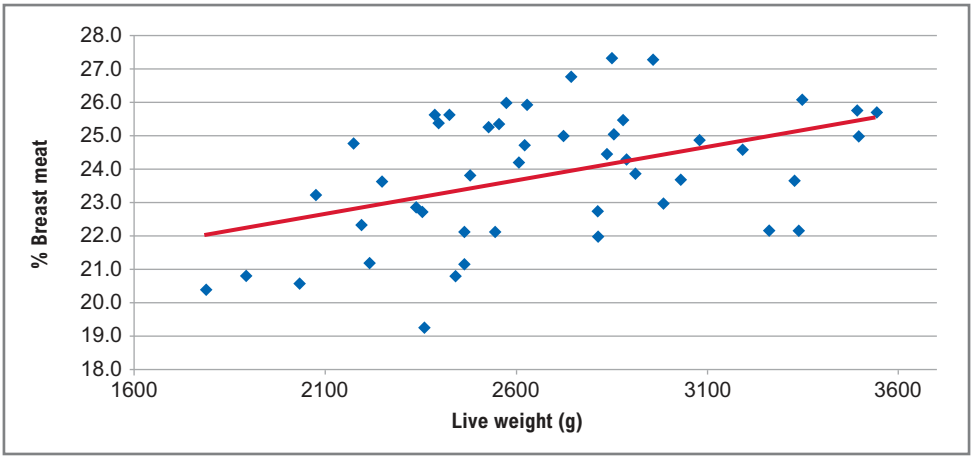
* Should withdrawal feed be required, use same finisher specification.

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 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.

Broiler Nutrition

Balanced digestible amino acid ratios

Amino Acid	Starter %	Grower %	Finisher 1 %	Finisher 2* %
Lysine†	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

† 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*	(g)	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).

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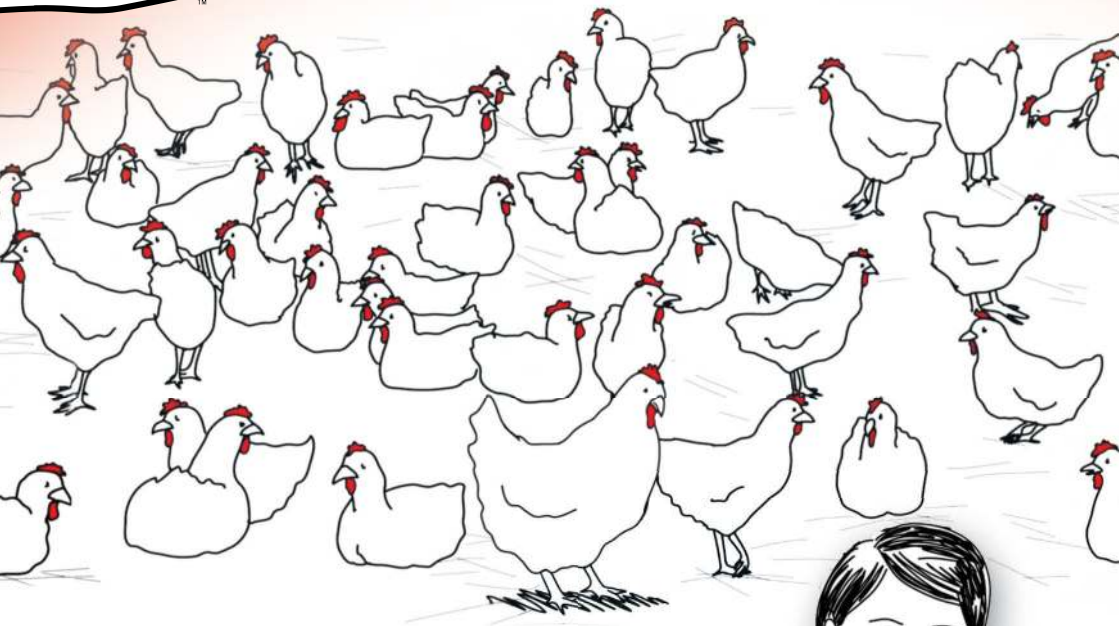

Bird Health and Well-Being

Cobb has a long-standing commitment to the health and well-being of the chickens that we breed, raise and distribute worldwide.

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