



# Cobb800™ Broiler

Nutrition and Management  
Supplement  
**2026**

[cobbgenetics.com](http://cobbgenetics.com)







# Introduction

This supplement presents broiler performance and yield targets for the Cobb800™ broilers, with recommended nutritional specifications designed to help achieve these targets.

Please contact your local Cobb technical representative to help develop a program designed specifically to suit your own local conditions based on the data and guidelines contained in this supplement. The Cobb Broiler Management Guide offers details on good management practices. This Guide and other technical resources are (available at: <https://www.cobbgenetics.com>)

Cobb's dedication to broiler genetics has generated incredible advances in economic traits related to feed efficiency, growth and muscle quality, as well as good cardiovascular function, skeletal strength, and uniform body size.

## **Give the flock a great start in brooding**

The importance of the brooding period cannot be over emphasized. The first 14 days of a chick's life sets the precedent for good performance. Extra effort during the brooding phase will be rewarded in the final flock performance. It is important to prepare the chick with a strong start in brooding by promoting early feed and water intake and good husbandry without compromise.

### ***Good Management***

Getting every chick to consume feed and water quickly is top priority. Chicks will consume 20 to 25% of their body weight in feed and 40 to 45% of their body weight in water 24 hours after placement. Provide 1 supplemental tray per 50 chicks to help ensure chicks can access feed easily.

### ***Drinker Line***

At placement, nipple pins should be at chick eye level. After 2 days, adjust the height so that the bird's head is at a 45-degree angle to the nipple. As the flock ages, raise the line keeping the height at a 45-degree angle to the bird's head for life of the flock. Chicks should always drink from the drinker lines with feet flat on the floor.

### ***Temperature***

The key to maximizing bird performance and welfare outcomes is providing a consistent housing environment adjusted to the needs of the birds. This is especially critical for young birds where a consistent ambient and floor temperature are key factors to promote good activity.



### ***Lighting***

Target a light intensity of 4 to 5 foot candles during brooding. Light intensity should not vary more than 20 %. Uniform distribution of light throughout the house is essential. Around day 10, gradually reduce light intensity 0.5 to 0.75 foot candles, unless local legislation prohibits this reduction.

### ***Feed***

Provide feed in a crumble form in trays, turbos, or paper. Set automatic feed pans in full flood mode to maximize accessibility. For brooding, place automatic feed pans on the ground, in the litter and set on overflow where possible.

Set the feed level within the automatic pans so that feed is easily accessible but spillage is minimized. Raise automatic feeders incrementally throughout the growing period so that the lip of the trough or pan is at mid-breast of the bird at all times.

### ***Chicks from pre-peak flocks***

Chicks from pre-peak breeder flocks are smaller and have a greater need for external heat to maintain their optimal body temperature compared to larger chicks. Smaller chicks have increased surface to body weight ratio and therefore body heat loss is greater than that of larger chicks. For small chicks, use higher brooding temperatures.

For optimum early development of chicks sourced from young breeder flocks, it is critical to provide easy access to water and feed. These chicks have a high demand for water accessibility. Water line height, pressure, and temperature along with good, clean water are keys to getting these young flock sourced chicks off to a great start.



**Water program**

Once the lights are turned on, the birds will feed first, then drink water. Therefore, it is critical to provide the water volume needed. A high volume of water is required to ensure water is distributed to the end of the drinker lines. Insufficient water volume will create air pockets in the drinker lines and birds will have to travel to find drinkers with water. It is not uncommon for a house full of 9 lb (4 kg) broilers to consume more than 3500 gal (13,000 L) of water in a day. It is critical that this water is clean, cool, and fresh. Ensure that the drinkers are well maintained and checked regularly for proper flow, temperature, and quality. Nipples should be able to supply 80 to 90 ml per minute. Keep in mind that late in the flock of big birds, the water consumption has a large impact on litter quality.

Nipple Water Flow Rate Guidelines*					
Age (Days)	0 to 7	8 to 14	15 to 21	22 to 28	29 +
Water Flow Rate per 30 seconds (ml)	20	25	30	35	45

*\*General guidelines provided. Consult manufacturer for equipment specific guidelines.*

**Lighting program**

The light intensity and distribution impacts broiler activity. Correct stimulation of activity during the first few days of age is necessary for optimal feed consumption. At day 1, the lights should be on for 24 hours, after which the house should be dark for 1 hour per day. Around day 10, introduce longer periods of darkness. Extended lighting periods help chicks learn to eat and drink, ensuring a strong start.. Periods of darkness are important for resting, preventing skeletal defects, supporting the immune system and flock uniformity.

Lighting Guidelines*			
Age	Day 1	Day 10	7 days before processing
Hours of Dark	1	6	4

*\*Dark periods should be adjusted to suit growth patterns by each company.*

### **House temperature and air quality**

House temperatures should never vary more than 2 (°F) degrees from the target temperature. The goal of effective temperature control is to adjust the environment in a way that chickens are unaffected by any changes in temperature. It is important to ensure an optimal environment with good ventilation and ensure good litter quality and lighting. Ventilation is important for removing excess heat as the broiler growth will accelerate and a rapid increase in daily feed consumption occurs.

Monitor bird behavior and feed intake. Adjustments in air exchange rates, air velocity and house set points need to ensure bird comfort. Increased bird body temperatures will cause panting, reduce feed intake and subsequent decreases in daily gains. Higher levels of panting indicate energy required for growth is being used for heat dissipation. Panting will add humidity to the house environment and increase feed conversion.

Temperature Guidelines*					
Age (Days)	1	7	14	35	55
Temperature (°F)	91 to 92	85 to 86	81 to 82	70 to 71	55

*\*May vary based on house humidity, stocking density and cooling source.*

### **Nutrition program**

For optimal performance, use the Cobb recommended diet provided on pages 20 and 21. This diet is specifically formulated for high yielding breeds. Typical feed programs recommended for other Cobb broiler products will likely result in suboptimal biological performance and returns.

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Imperial) AS HATCHED						
Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.09					
1	0.16	0.06		0.195	0.03	0.03
2	0.21	0.06		0.346	0.04	0.07
3	0.26	0.05		0.469	0.05	0.12
4	0.31	0.05		0.569	0.05	0.18
5	0.35	0.04		0.662	0.06	0.23
6	0.40	0.04		0.753	0.07	0.30
7	0.44	0.05	0.06	0.825	0.07	0.37
8	0.50	0.05	0.06	0.886	0.07	0.44
9	0.55	0.06	0.06	0.937	0.08	0.52
10	0.62	0.07	0.06	0.968	0.08	0.60
11	0.70	0.08	0.06	0.992	0.09	0.69
12	0.79	0.09	0.07	1.013	0.11	0.80
13	0.89	0.10	0.07	1.032	0.12	0.92
14	1.02	0.12	0.07	1.046	0.14	1.06
15	1.15	0.13	0.08	1.062	0.16	1.22
16	1.29	0.14	0.08	1.079	0.17	1.39
17	1.43	0.15	0.08	1.096	0.18	1.57
18	1.59	0.16	0.09	1.112	0.20	1.77
19	1.75	0.16	0.09	1.129	0.21	1.98
20	1.92	0.17	0.10	1.146	0.22	2.20
21	2.10	0.18	0.10	1.163	0.24	2.44
22	2.28	0.18	0.10	1.179	0.25	2.69
23	2.47	0.19	0.11	1.196	0.26	2.95
24	2.66	0.19	0.11	1.213	0.28	3.23
25	2.86	0.20	0.11	1.230	0.29	3.52
26	3.07	0.20	0.12	1.247	0.30	3.82
27	3.28	0.21	0.12	1.264	0.32	4.14
28	3.49	0.21	0.12	1.281	0.33	4.47
29	3.71	0.22	0.13	1.298	0.34	4.81
30	3.93	0.22	0.13	1.315	0.35	5.16
31	4.15	0.22	0.13	1.332	0.36	5.53

**BROILER PERFORMANCE OBJECTIVES**Broiler Performance Objectives (Imperial)  
**AS HATCHED**

Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
32	4.37	0.23	0.14	1,349	0.38	5.90
33	4.60	0.23	0.14	1,366	0.39	6.29
34	4.83	0.23	0.14	1,383	0.40	6.68
35	5.06	0.23	0.14	1,400	0.41	7.09
36	5.30	0.23	0.15	1,417	0.42	7.51
37	5.53	0.23	0.15	1,434	0.43	7.93
38	5.76	0.23	0.15	1,452	0.43	8.37
39	6.00	0.23	0.15	1,469	0.44	8.81
40	6.23	0.23	0.16	1,486	0.45	9.26
41	6.46	0.23	0.16	1,503	0.46	9.71
42	6.69	0.23	0.16	1,520	0.46	10.17
43	6.92	0.23	0.16	1,537	0.47	10.64
44	7.15	0.23	0.16	1,554	0.47	11.11
45	7.38	0.23	0.16	1,571	0.48	11.59
46	7.60	0.22	0.17	1,588	0.48	12.07
47	7.82	0.22	0.17	1,605	0.48	12.55
48	8.04	0.22	0.17	1,622	0.49	13.04
49	8.25	0.21	0.17	1,639	0.49	13.53
50	8.46	0.21	0.17	1,656	0.49	14.01
51	8.66	0.20	0.17	1,673	0.49	14.50
52	8.86	0.20	0.17	1,691	0.49	14.99
53	9.06	0.19	0.17	1,708	0.49	15.47
54	9.25	0.19	0.17	1,726	0.49	15.96
55	9.43	0.18	0.17	1,744	0.48	16.45
56	9.61	0.18	0.17	1,762	0.48	16.93
57	9.78	0.17	0.17	1,780	0.48	17.41
58	9.94	0.16	0.17	1,799	0.47	17.88
59	10.10	0.16	0.17	1,817	0.47	18.35
60	10.24	0.15	0.17	1,836	0.46	18.81
61	10.38	0.14	0.17	1,855	0.45	19.26
62	10.51	0.12	0.17	1,874	0.43	19.70
63	10.62	0.11	0.17	1,894	0.41	20.11

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Imperial)						
MALE						
Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.10					
1	0.16	0.06		0.180	0.03	0.03
2	0.22	0.06		0.323	0.04	0.07
3	0.27	0.05		0.443	0.05	0.12
4	0.31	0.05		0.544	0.05	0.17
5	0.36	0.05		0.650	0.06	0.23
6	0.41	0.05		0.746	0.07	0.30
7	0.45	0.05	0.06	0.820	0.07	0.37
8	0.51	0.05	0.06	0.882	0.07	0.45
9	0.57	0.06	0.06	0.937	0.08	0.53
10	0.63	0.07	0.06	0.962	0.08	0.61
11	0.71	0.08	0.06	0.987	0.09	0.70
12	0.80	0.09	0.07	1.010	0.11	0.81
13	0.91	0.11	0.07	1.028	0.12	0.93
14	1.03	0.12	0.07	1.044	0.14	1.07
15	1.16	0.13	0.08	1.060	0.16	1.23
16	1.30	0.14	0.08	1.076	0.17	1.40
17	1.45	0.15	0.09	1.092	0.19	1.58
18	1.61	0.16	0.09	1.108	0.20	1.79
19	1.78	0.17	0.09	1.124	0.21	2.00
20	1.95	0.18	0.10	1.140	0.23	2.23
21	2.14	0.18	0.10	1.156	0.24	2.47
22	2.33	0.19	0.11	1.172	0.26	2.73
23	2.53	0.20	0.11	1.189	0.27	3.00
24	2.73	0.20	0.11	1.205	0.29	3.29
25	2.94	0.21	0.12	1.221	0.30	3.59
26	3.16	0.22	0.12	1.237	0.31	3.91
27	3.38	0.22	0.13	1.253	0.33	4.23
28	3.61	0.23	0.13	1.269	0.34	4.57
29	3.84	0.23	0.13	1.285	0.35	4.93
30	4.07	0.23	0.14	1.301	0.37	5.29
31	4.31	0.24	0.14	1.317	0.38	5.67

**BROILER PERFORMANCE OBJECTIVES**

## Broiler Performance Objectives (Imperial)

**MALE**

Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
32	4.55	0.24	0.14	1.333	0.39	6.06
33	4.79	0.24	0.15	1.349	0.40	6.46
34	5.03	0.24	0.15	1.365	0.41	6.87
35	5.28	0.25	0.15	1.381	0.42	7.29
36	5.53	0.25	0.15	1.397	0.43	7.72
37	5.78	0.25	0.16	1.413	0.44	8.16
38	6.03	0.25	0.16	1.429	0.45	8.61
39	6.28	0.25	0.16	1.445	0.46	9.07
40	6.52	0.25	0.16	1.461	0.46	9.53
41	6.77	0.25	0.17	1.477	0.47	10.00
42	7.02	0.25	0.17	1.493	0.48	10.48
43	7.26	0.24	0.17	1.509	0.48	10.96
44	7.51	0.24	0.17	1.525	0.49	11.44
45	7.75	0.24	0.17	1.541	0.49	11.93
46	7.98	0.24	0.17	1.556	0.49	12.43
47	8.22	0.23	0.17	1.572	0.49	12.92
48	8.45	0.23	0.18	1.588	0.50	13.41
49	8.67	0.23	0.18	1.604	0.50	13.91
50	8.89	0.22	0.18	1.620	0.49	14.40
51	9.11	0.22	0.18	1.636	0.49	14.90
52	9.32	0.21	0.18	1.652	0.49	15.39
53	9.52	0.20	0.18	1.669	0.49	15.89
54	9.72	0.20	0.18	1.685	0.49	16.38
55	9.91	0.19	0.18	1.702	0.49	16.87
56	10.09	0.18	0.18	1.719	0.48	17.35
57	10.27	0.18	0.18	1.736	0.48	17.83
58	10.43	0.17	0.18	1.754	0.47	18.30
59	10.59	0.16	0.18	1.772	0.47	18.77
60	10.74	0.15	0.18	1.789	0.46	19.22
61	10.88	0.14	0.18	1.808	0.45	19.67
62	11.01	0.13	0.18	1.826	0.43	20.10
63	11.12	0.11	0.18	1.844	0.42	20.52

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Imperial)						
FEMALE						
Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
0	0.09					
1	0.15	0.06		0.210	0.03	0.03
2	0.21	0.05		0.370	0.04	0.08
3	0.26	0.05		0.497	0.05	0.13
4	0.30	0.05		0.596	0.05	0.18
5	0.34	0.04		0.675	0.05	0.23
6	0.39	0.04		0.760	0.06	0.29
7	0.43	0.05	0.06	0.830	0.07	0.36
8	0.49	0.05	0.06	0.890	0.07	0.43
9	0.54	0.06	0.06	0.938	0.08	0.51
10	0.61	0.07	0.06	0.974	0.08	0.59
11	0.69	0.08	0.06	0.996	0.09	0.68
12	0.78	0.09	0.06	1.016	0.11	0.79
13	0.88	0.10	0.07	1.036	0.12	0.91
14	1.00	0.12	0.07	1.048	0.14	1.05
15	1.13	0.13	0.08	1.065	0.16	1.21
16	1.27	0.14	0.08	1.082	0.17	1.37
17	1.41	0.14	0.08	1.099	0.18	1.55
18	1.57	0.15	0.09	1.116	0.19	1.75
19	1.72	0.16	0.09	1.134	0.21	1.95
20	1.89	0.16	0.09	1.151	0.22	2.17
21	2.05	0.17	0.10	1.169	0.23	2.40
22	2.23	0.17	0.10	1.187	0.24	2.65
23	2.41	0.18	0.10	1.204	0.26	2.90
24	2.59	0.18	0.11	1.222	0.27	3.17
25	2.78	0.19	0.11	1.240	0.28	3.45
26	2.98	0.19	0.11	1.258	0.29	3.74
27	3.17	0.20	0.12	1.276	0.30	4.05
28	3.37	0.20	0.12	1.294	0.32	4.36
29	3.58	0.20	0.12	1.312	0.33	4.69
30	3.78	0.21	0.13	1.330	0.34	5.03
31	3.99	0.21	0.13	1.348	0.35	5.38

**BROILER PERFORMANCE OBJECTIVES**

## Broiler Performance Objectives (Imperial)

**FEMALE**

Age (days)	Weight (lb)	Daily Gain (lb)	Average Daily Gain (lb)	Cumulative Feed Conversion	Daily Feed Consumption (lb)	Cumulative Feed Consumption (lb)
32	4.20	0.21	0.13	1.367	0.36	5.74
33	4.42	0.21	0.13	1.385	0.37	6.11
34	4.63	0.21	0.14	1.403	0.38	6.50
35	4.85	0.22	0.14	1.421	0.39	6.89
36	5.06	0.22	0.14	1.440	0.40	7.29
37	5.28	0.22	0.14	1.458	0.41	7.70
38	5.50	0.22	0.14	1.476	0.42	8.12
39	5.72	0.22	0.15	1.495	0.43	8.54
40	5.93	0.22	0.15	1.513	0.43	8.98
41	6.15	0.22	0.15	1.531	0.44	9.42
42	6.37	0.22	0.15	1.550	0.45	9.87
43	6.58	0.22	0.15	1.568	0.45	10.32
44	6.80	0.21	0.15	1.587	0.46	10.78
45	7.01	0.21	0.16	1.605	0.46	11.25
46	7.22	0.21	0.16	1.623	0.47	11.72
47	7.42	0.21	0.16	1.642	0.47	12.19
48	7.63	0.20	0.16	1.660	0.47	12.66
49	7.83	0.20	0.16	1.678	0.48	13.14
50	8.03	0.20	0.16	1.696	0.48	13.62
51	8.22	0.19	0.16	1.715	0.48	14.10
52	8.41	0.19	0.16	1.733	0.48	14.58
53	8.60	0.19	0.16	1.752	0.48	15.06
54	8.78	0.18	0.16	1.771	0.48	15.54
55	8.95	0.18	0.16	1.790	0.48	16.03
56	9.12	0.17	0.16	1.809	0.48	16.51
57	9.29	0.16	0.16	1.829	0.48	16.98
58	9.45	0.16	0.16	1.848	0.47	17.46
59	9.60	0.15	0.16	1.868	0.47	17.93
60	9.75	0.15	0.16	1.888	0.47	18.40
61	9.88	0.14	0.16	1.908	0.46	18.86
62	10.01	0.12	0.16	1.928	0.43	19.29
63	10.11	0.11	0.16	1.948	0.41	19.70

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Metric) AS HATCHED						
Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	43					
1	71	28		0.195	13	13
2	96	25		0.346	20	33
3	119	23		0.469	22	56
4	139	21		0.569	24	79
5	160	20		0.662	26	106
6	180	20		0.753	30	136
7	202	22	28.8	0.825	31	166
8	225	24	28.1	0.916	33	199
9	252	27	28.0	0.944	36	236
10	282	30	28.2	0.968	37	273
11	317	35	28.8	0.992	42	315
12	358	41	29.8	1.013	48	363
13	406	48	31.2	1.032	56	419
14	461	55	32.9	1.046	63	482
15	520	59	34.7	1.062	71	552
16	583	63	36.4	1.079	77	629
17	650	67	38.2	1.096	83	712
18	720	70	40.0	1.112	89	801
19	794	74	41.8	1.129	95	897
20	871	77	43.6	1.146	102	998
21	951	80	45.3	1.163	108	1106
22	1034	83	47.0	1.179	114	1220
23	1120	86	48.7	1.196	120	1339
24	1208	88	50.3	1.213	126	1465
25	1298	91	51.9	1.230	132	1597
26	1391	93	53.5	1.247	138	1735
27	1486	95	55.0	1.264	143	1878
28	1583	97	56.5	1.281	149	2027
29	1681	98	58.0	1.298	155	2182
30	1781	100	59.4	1.315	160	2342
31	1882	101	60.7	1.332	165	2507

**BROILER PERFORMANCE OBJECTIVES**

Broiler Performance Objectives (Metric)  
**AS HATCHED**

Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
32	1984	102	62.0	1.349	170	2677
33	2088	103	63.3	1.366	175	2852
34	2192	104	64.5	1.383	180	3032
35	2297	105	65.6	1.400	184	3216
36	2402	105	66.7	1.417	189	3405
37	2508	106	67.8	1.434	193	3598
38	2614	106	68.8	1.452	197	3794
39	2720	106	69.7	1.469	200	3995
40	2826	106	70.6	1.486	204	4198
41	2931	105	71.5	1.503	207	4405
42	3036	105	72.3	1.520	210	4615
43	3140	104	73.0	1.537	212	4827
44	3244	103	73.7	1.554	214	5041
45	3346	102	74.4	1.571	216	5257
46	3448	101	74.9	1.588	218	5475
47	3547	100	75.5	1.605	219	5694
48	3646	98	76.0	1.622	220	5914
49	3742	97	76.4	1.639	221	6135
50	3837	95	76.7	1.656	221	6356
51	3930	93	77.1	1.673	221	6577
52	4021	91	77.3	1.691	221	6798
53	4109	88	77.5	1.708	221	7019
54	4195	86	77.7	1.726	221	7240
55	4278	83	77.8	1.744	220	7460
56	4358	80	77.8	1.762	219	7678
57	4435	77	77.8	1.780	217	7895
58	4509	74	77.7	1.799	215	8110
59	4579	71	77.6	1.817	212	8322
60	4646	67	77.4	1.836	209	8532
61	4710	63	77.2	1.855	206	8737
62	4766	57	76.9	1.874	196	8934
63	4816	50	76.4	1.894	187	9121

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Metric)						
MALE						
Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	44					
1	73	29		0.180	11	11
2	98	25		0.323	21	32
3	121	23		0.443	22	54
4	143	21		0.544	24	78
5	163	21		0.650	29	106
6	184	21		0.746	31	137
7	206	22	29.4	0.820	32	169
8	230	24	28.7	0.882	34	203
9	257	27	28.5	0.937	38	240
10	287	31	28.7	0.962	36	276
11	323	35	29.3	0.987	42	318
12	364	41	30.3	1.010	49	367
13	411	48	31.6	1.028	56	423
14	466	55	33.3	1.044	64	487
15	526	60	35.1	1.060	71	557
16	590	64	36.9	1.076	77	635
17	658	68	38.7	1.092	84	719
18	731	72	40.6	1.108	91	810
19	807	76	42.5	1.124	97	907
20	887	80	44.3	1.140	104	1011
21	970	83	46.2	1.156	111	1122
22	1,057	87	48.0	1.172	117	1239
23	1,147	90	49.9	1.189	124	1363
24	1,239	93	51.6	1.205	130	1493
25	1,335	95	53.4	1.221	136	1629
26	1,433	98	55.1	1.237	143	1772
27	1,533	100	56.8	1.253	149	1921
28	1,636	102	58.4	1.269	155	2075
29	1,740	104	60.0	1.285	160	2235
30	1,846	106	61.5	1.301	166	2401
31	1,954	108	63.0	1.317	171	2573

**BROILER PERFORMANCE OBJECTIVES**

## Broiler Performance Objectives (Metric)

**MALE**

Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
32	2,063	109	64.5	1.333	177	2749
33	2,173	110	65.8	1.349	182	2931
34	2,284	111	67.2	1.365	186	3117
35	2,396	112	68.4	1.381	191	3308
36	2,508	112	69.7	1.397	195	3504
37	2,621	113	70.8	1.413	200	3703
38	2,734	113	71.9	1.429	203	3906
39	2,847	113	73.0	1.445	207	4113
40	2,960	113	74.0	1.461	210	4324
41	3,072	112	74.9	1.477	213	4537
42	3,184	112	75.8	1.493	216	4753
43	3,295	111	76.6	1.509	218	4971
44	3,405	110	77.4	1.525	220	5191
45	3,514	109	78.1	1.541	222	5413
46	3,621	107	78.7	1.556	223	5636
47	3,727	106	79.3	1.572	224	5860
48	3,831	104	79.8	1.588	225	6085
49	3,933	102	80.3	1.604	225	6309
50	4,033	100	80.7	1.620	224	6534
51	4,131	98	81.0	1.636	225	6758
52	4,226	95	81.3	1.652	224	6983
53	4,319	92	81.5	1.669	224	7206
54	4,408	89	81.6	1.685	223	7429
55	4,494	86	81.7	1.702	221	7650
56	4,577	83	81.7	1.719	219	7869
57	4,657	80	81.7	1.736	217	8087
58	4,733	76	81.6	1.754	214	8301
59	4,805	72	81.4	1.772	211	8512
60	4,873	68	81.2	1.789	207	8719
61	4,936	64	80.9	1.808	203	8922
62	4,994	58	80.5	1.826	196	9119
63	5,046	52	80.1	1.844	189	9307

## BROILER PERFORMANCE OBJECTIVES

Broiler Performance Objectives (Metric)						
FEMALE						
Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
0	41					
1	69	28		0.210	14	14
2	94	25		0.370	20	35
3	116	22		0.497	23	58
4	136	20		0.596	24	81
5	156	20		0.675	24	105
6	176	20		0.760	28	134
7	197	21	28.2	0.830	30	164
8	220	23	27.6	0.890	33	196
9	247	26	27.4	0.938	35	231
10	277	30	27.7	0.974	38	270
11	312	35	28.4	0.996	41	311
12	353	41	29.4	1.016	48	358
13	400	47	30.8	1.036	56	414
14	455	55	32.5	1.048	62	477
15	514	59	34.3	1.065	71	547
16	576	62	36.0	1.082	76	623
17	642	65	37.7	1.099	82	705
18	710	68	39.4	1.116	88	793
19	781	71	41.1	1.134	93	886
20	855	74	42.8	1.151	99	985
21	932	77	44.4	1.169	105	1090
22	1,011	79	46.0	1.187	110	1200
23	1,093	81	47.5	1.204	116	1316
24	1,176	84	49.0	1.222	122	1438
25	1,262	86	50.5	1.240	127	1565
26	1,349	88	51.9	1.258	133	1698
27	1,439	89	53.3	1.276	138	1836
28	1,530	91	54.6	1.294	143	1979
29	1,622	92	55.9	1.312	149	2128
30	1,715	94	57.2	1.330	154	2282
31	1,810	95	58.4	1.348	159	2441

**BROILER PERFORMANCE OBJECTIVES**

## Broiler Performance Objectives (Metric)

**FEMALE**

Age (days)	Weight (g)	Daily Gain (g)	Average Daily Gain (g)	Cumulative Feed Conversion	Daily Feed Consumption (g)	Cumulative Feed Consumption (g)
32	1,906	96	59.6	1.367	164	2605
33	2,003	97	60.7	1.385	169	2773
34	2,100	97	61.8	1.403	173	2947
35	2,198	98	62.8	1.421	178	3124
36	2,297	98	63.8	1.440	182	3306
37	2,395	99	64.7	1.458	186	3492
38	2,494	99	65.6	1.476	190	3682
39	2,593	99	66.5	1.495	194	3876
40	2,692	99	67.3	1.513	197	4073
41	2,790	99	68.1	1.531	200	4273
42	2,889	98	68.8	1.550	203	4477
43	2,986	98	69.4	1.568	206	4683
44	3,083	97	70.1	1.587	209	4891
45	3,179	96	70.6	1.605	211	5102
46	3,274	95	71.2	1.623	213	5315
47	3,368	94	71.7	1.642	214	5529
48	3,461	93	72.1	1.660	215	5744
49	3,552	91	72.5	1.678	216	5961
50	3,641	90	72.8	1.696	217	6178
51	3,729	88	73.1	1.715	217	6395
52	3,815	86	73.4	1.733	219	6613
53	3,900	84	73.6	1.752	219	6832
54	3,981	82	73.7	1.771	219	7051
55	4,061	80	73.8	1.790	219	7270
56	4,138	77	73.9	1.809	218	7487
57	4,213	75	73.9	1.829	217	7704
58	4,285	72	73.9	1.848	215	7919
59	4,354	69	73.8	1.868	213	8133
60	4,420	66	73.7	1.888	211	8344
61	4,483	63	73.5	1.908	209	8553
62	4,538	55	73.2	1.928	196	8749
63	4,586	48	72.8	1.948	186	8934

## BROILER NUTRITION

Broiler Nutrition Recommendations						
	Unit	Starter	Grower	Grower 2	Finisher 1	Finisher 2*
Feeding Amount/bird	lb	1.00	3.53	3.90	4.67	Balance
	g	455	1,600	1,770	2,120	Balance
Feeding Period (days)		0 to 14	15 to 29	30 to 39	40 to 49	> 50
Feed Structure		Crumble	Pellet	Pellet	Pellet	Pellet
Crude Protein	%	22	19	18	17	16
Metabolize energy** (AMEn <sup>†</sup> )	MJ/kg	12.59	12.78	12.96	13.05	13.10
	Kcal/kg	3010	3054	3098	3119	3130
	Kcal/lb	1365	1385	1405	1415	1420
Digestible Amino Acids						
Digestible Lysine	%	1.32	1.22	1.11	0.98	0.84
Digestible Methionine	%	0.55	0.51	0.47	0.42	0.37
Digestible Met + Cys	%	1.00	0.94	0.87	0.77	0.66
Digestible Tryptophan	%	0.21	0.20	0.18	0.16	0.13
Digestible Threonine	%	0.88	0.82	0.74	0.66	0.56
Digestible Arginine	%	1.43	1.33	1.22	1.09	0.94
Digestible Valine	%	1.00	0.94	0.87	0.77	0.67
Digestible Isoleucine	%	0.88	0.82	0.75	0.68	0.58
Digestible Leucine	%	1.45	1.34	1.22	1.08	0.92
Minerals						
Calcium	%	0.96	0.80	0.74	0.68	0.64
Available Phosphorus	%	0.58	0.40	0.37	0.34	0.32
Sodium	%	0.18 to 0.23				
Chloride	%	0.18 to 0.30				
Potassium	%	0.60 to 0.95				
Linoleic Acid	%	1.20	1.20	1.00	1.00	1.00
Choline	mg / kg	1,700	1,600	1,500	1,400	1,400

\* If Withdrawal feed is required, use same finisher specification.

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

\*\*\* Considerations for the exogenous phytase enzyme inclusion: If matrix for calcium (Ca) and available phosphorus (avP) exceeds 0.13% for 500 FTU/kg feed for the inclusion of phytase enzyme, the difference between the actual matrix used and 0.13% should be added to increase the recommendations shown in the table above (Example: If phytase enzyme matrix used is 0.15% for avP, then the avP recommendations should be increased by 0.02% (0.15% - 0.13% = 0.02%). The new recommendations would be 0.60%, 0.42%, 0.39%, 0.36%, and 0.34% for the Starter, Grower 1, Grower 2, Finisher 1, and Finisher 2 feeds, respectively. To prevent deficiency conditions, similar adjustments should be made for dietary Ca as well. The adjustment to the phytase superdosing matrix value (1,100 FTU or higher) is 0.16% (increase recommendation by the actual matrix value - 0.16%).

Balanced Digestible Amino Acid Ratios  
(all values are given as a percentage)

Amino Acid	Starter	Grower 1	Grower 2	Finisher 1	Finisher 2*
Lysine	100	100	100	100	100
Methionine	42	42	42	43	44
M + C	76	77	78	79	79
Tryptophan	16	16	16	16	16
Threonine	67	67	67	67	67
Arginine	108	109	110	111	112
Valine	76	77	78	79	80
Isoleucine	67	67	68	69	69
Leucine*	110	110	110	110	110

\* If digestible Leucine to digestible Lysine ratio (Leu/Lys) goes over 145%, the digestible valine requirement may have to be increased. Please refer to the latest literature or contact Cobb nutrition team.

Supplementary Amounts of Vitamins and Trace Minerals in Finished Feed per kg (lb)

	Unit	Starter		Grower		Finisher	
		per kg	per lb	per kg	per lb	per kg	per lb
Vitamin A	IU	11,500	5218	10,000	4537	10,000	4537
Vitamin D3	IU	5,000	2269	5,000	2269	5,000	2269
Vitamin E	IU	80	36	70	32	70	32
Vitamin K	mg	3.0	1.4	3.0	1.4	3.0	1.4
Thiamine (B1)	mg	3.0	1.4	2.0	0.9	2.0	0.9
Riboflavin (B2)	mg	9.0	4.1	8.0	3.6	7.0	3.2
Niacin	mg	60	27.2	50	22.7	50	22.7
Pantothenic acid	mg	24	11	15	7	13	6
Pyridoxine (B6)	mg	4	2	3	1	3	1
Biotin (corn diets)	mg	0.25	0.11	0.20	0.09	0.15	0.07
Biotin (wheat diets)	mg	0.31	0.14	0.26	0.12	0.21	0.10
Folic acid	g	2.0	1	2.0	1	1.5	1
Vitamin B12	mg	0.020	0.01	0.015	0.01	0.015	0.01
Manganese	g	100	45	100	45	100	45
Zinc	g	100	45	100	45	100	45
Iron	g	40	18	40	18	40	18
Copper	g	15	7	15	7	15	7
Iodine	g	1.0	0.5	1.0	0.5	1.0	0.5
Selenium	g	0.35	0.16	0.35	0.16	0.35	0.16

Vitamin and trace minerals may vary depending on the source and supplier.

The numbers above refer to e.g. usage of inorganic minerals and vitamin D<sub>3</sub> source.

Supplementary levels of trace minerals should always be reviewed to ensure total levels. Do not exceed those set in local legislation.

IU = International units

g = grams

**BROILER YIELDS**

Predicted Yields at Given Weights (% of Live Weight)								
<b>AS HATCHED</b>								
Live Weight		Carcass	Boneless Breast	Wing	Leg	Drumstick	Thigh	Deboned Thigh
(kg)	(lb)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
1.60	3.53	72.75	25.59	7.32	21.86	9.21	12.65	11.36
1.80	3.97	73.29	26.26	7.27	21.92	9.18	12.74	11.47
2.00	4.41	73.8	26.88	7.24	21.97	9.16	12.81	11.56
2.20	4.85	74.29	27.47	7.20	22.02	9.14	12.89	11.65
2.40	5.29	74.75	28.02	7.17	22.07	9.13	12.96	11.73
2.60	5.73	75.18	28.53	7.14	22.11	9.11	13.03	11.81
2.80	6.17	75.57	29.00	7.11	22.14	9.10	13.09	11.88
3.00	6.61	75.94	29.43	7.09	22.18	9.08	13.14	11.94
3.20	7.05	76.28	29.82	7.06	22.21	9.07	13.19	12.00
3.40	7.50	76.59	30.17	7.04	22.25	9.06	13.24	12.06
3.60	7.94	76.88	30.48	7.02	22.27	9.05	13.28	12.11
3.80	8.38	77.13	30.76	7.00	22.30	9.03	13.32	12.16
4.00	8.82	77.35	30.99	6.98	22.33	9.02	13.36	12.21
4.20	9.26	77.55	31.18	6.96	22.35	9.01	13.4	12.25
4.40	9.70	77.71	31.33	6.94	22.38	9.00	13.43	12.29
4.60	10.14	77.56	30.84	6.92	22.96	8.99	13.71	12.50
4.80	10.58	77.66	30.91	6.90	22.98	8.98	13.73	12.53

Predicted Yields at Given Weights (% of Live Weight)								
<b>MALE</b>								
Live Weight		Carcass	Boneless Breast	Wing	Leg	Drumstick	Thigh	Deboned Thigh
(kg)	(lb)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
1.60	3.53	72.32	25.31	7.40	21.99	9.39	12.76	11.45
1.80	3.97	72.87	25.88	7.35	22.10	9.38	12.83	11.53
2.00	4.41	73.40	26.43	7.32	22.21	9.37	12.89	11.60
2.20	4.85	73.89	26.94	7.29	22.31	9.35	12.96	11.68
2.40	5.29	74.36	27.42	7.26	22.41	9.34	13.03	11.75
2.60	5.73	74.80	27.87	7.23	22.50	9.33	13.10	11.83
2.80	6.17	75.21	28.3	7.20	22.58	9.33	13.18	11.91
3.00	6.61	75.60	28.69	7.18	22.67	9.32	13.24	11.98
3.20	7.05	75.96	29.05	7.16	22.74	9.31	13.32	12.06
3.40	7.50	76.29	29.38	7.14	22.82	9.3	13.38	12.13
3.60	7.94	76.59	29.68	7.12	22.88	9.3	13.46	12.21
3.80	8.38	76.86	29.96	7.10	22.95	9.29	13.53	12.29
4.00	8.82	77.10	30.2	7.08	23.01	9.28	13.61	12.37
4.20	9.26	77.32	30.41	7.06	23.06	9.28	13.67	12.44
4.40	9.70	77.51	30.59	7.05	23.11	9.27	13.75	12.52
4.60	10.14	77.67	30.74	7.03	23.15	9.27	13.83	12.60
4.80	10.58	77.80	30.86	7.02	23.19	9.26	13.90	12.68

**BROILER YIELDS**

Predicted Yields at Given Weights (% of Live Weight)								
<b>FEMALE</b>								
Live Weight		Carcass	Boneless Breast	Wing	Leg	Drumstick	Thigh	Deboned Thigh
(kg)	(lb)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
1.60	3.53	72.77	26.07	7.44	21.56	9.04	12.36	11.05
1.80	3.97	73.45	26.75	7.35	21.66	9.00	12.52	11.25
2.00	4.41	74.08	27.39	7.26	21.75	8.97	12.67	11.43
2.20	4.85	74.66	27.99	7.18	21.81	8.94	12.8	11.59
2.40	5.29	75.19	28.56	7.11	21.85	8.91	12.9	11.72
2.60	5.73	75.68	29.08	7.05	21.87	8.88	13.00	11.84
2.80	6.17	76.11	29.57	6.98	21.87	8.85	13.06	11.93
3.00	6.61	76.49	30.02	6.93	21.85	8.83	13.11	12.00
3.20	7.05	76.83	30.43	6.87	21.81	8.81	13.13	12.04
3.40	7.50	77.12	30.80	6.82	21.75	8.79	13.15	12.07
3.60	7.94	77.36	31.13	6.78	21.66	8.77	13.13	12.07
3.80	8.38	77.55	31.43	6.73	21.56	8.75	13.09	12.05
4.00	8.82	77.69	31.69	6.69	21.44	8.73	13.04	12.01









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