Cobb700 Fast Feather Breeder

Management Supplement

www.cobb-vantress.com


Co66

This Cobb Breeder Management Supplement should be used with the Cobb Breeder Management Guide to assist you in building your program.

Management must meet the basic needs of the stock but also be optimized to attain the full potential of the breed. Our recommendations in this supplement are based on current scientific knowledge and practical experience and reflect the genetic potential of the Cobb hens based on Total Eggs and Hatch Percent records taken from the top 25% of Cobb flocks.

This supplement should be used as a guide only and adapted locally according to your own experience when projecting performance from all flocks in a particular operation. You should be aware of any local legislation which may influence the management practices that you choose to adopt.

Today's modern breeder chickens are more efficient, more productive, and more robust than prior generations. This progress is due to improved genetics and advances in husbandry methods that enhance the longevity, welfare outcomes and performance of breeder chickens at rearing and laying farms.

Cobb continues to expand the variety of breed crosses to meet global customer needs and expectations. Cobb technical representatives are always available for any questions and assistance.

For more information visit **https://www.cobb-vantress.com/resource**

Management Highlights

- Feeder space and flock uniformity are essential to achieve optimum performance. Research has shown that cumulative protein intake between 0.36 to 0.4 lb (165 to 180g) at 28 days (pullets) can have a positive impact on flock uniformity, bone density, feathering, egg size and production.
- Observe the flock during feeding as often as possible – weekly at a minimum. This will help determine the proper feeder space and any feed distribution issue that can occur.
- Ensure adequate water intake and nipples per bird.
- Ideal brooding conditions (feed, light, air and water management) must be implemented and closely monitored at all times to ensure physiological requirements are being met for optimum bird comfort.
- Flock performance is directly correlated to flock condition at light stimulation. The goal at light stimulation is that >85% of the pullets must have pelvic fat, and 95% should have a fleshing score between #3 to #4.
- To accomplish this, it is important to achieve the fleshing target at 12, 16, and 20 weeks of age.

Standard Fleshing and Pelvic Fat

Week	Fleshing				Pelvic Fat
	#2	*#3*	*#4*	*Total #3 + #4*	
12	70%	30%		30%	
16	40%	60%		60%	
19	<10%	60%	30%	90%	>65%
20	<5%	60%	35%	95%	>75%
21		60%	40%	100%	>85%
22		60%	40%	100%	>90%

- ✓ If fleshing is considerably behind at 16 and 20 weeks, the target move age (and lighting) should be delayed until 154 days or later if necessary. Bodyweight (BW) should increase a minimum of 36% between 16 to 20 weeks to facilitate fleshing and pelvic fat deposition. Feed increases between 14 to 20 weeks should be accelerated to achieve the target weight, fleshing and fat deposition at lighting.

- ✓ The fleshing and fat scores at 19 and 20 weeks of age determine the correct age for lighting. All rearing data including the BW curve, feeding curve, feed formulation, fleshing and pelvic fat scoring should be used to make this decision.

- ✓ It is essential for males and females to have sexual synchronization at transfer. If males are ahead of females, delay moving males by up to 1 week after females.

Male and Female Weight Differential

Calculate the weight differential between males and females. Place fewer males if the weight differential is greater than 30%.

Example at 20 Weeks
Cobb700 = 4.95 lb (2247 g); Cobb Vantage Male = 5.95 lb (2699 g); (5.95 - 4.95 lb) / 4.95 x 100% = 0.202 or 20.2%

Example at 22 Weeks
Cobb700 = 5.65 lb (2565 g); Cobb Vantage Male = 6.75 lb (3062 g); (6.75 - 5.65) / 5.65 x 100% = 0.195 or 19.5%

- If males are consistently ahead of females, and housing constraints don't allow a delayed move, adjust the male BW program from 12 to 20 weeks of age to a lighter target weight at move. Please contact your tech service representative for assistance.
- Feed reduction post peak is less aggressive than with the Cobb500. A 5 to 8% cumulative reduction from the peak feed amount to 65 weeks is not uncommon.
- Nest management for the mechanical individual nest should ensure a maximum of 5.5 hens per nest hole. Fewer hens per nest hole generally results in fewer non-nest eggs.

The Essentials

- **Uniformity** - Required for the proper feeding of a flock to get good results.
- **Feed distribution** - The primary way to achieve and maintain good uniformity. Ensure uniform feed distribution is done in the dark (<3 minutes with chain feeders).
- **Feed guide** - Establish a feeding curve that works for the 700 female BW curve in your operation. Follow this feeding curve and only make minor adjustments if BW deviates more than 2% from the standard.
- **Don't over feed protein** - Too much protein can result in over weight problems before 16 weeks of age. The birds will put on too much breast meat and this makes it harder to get enough fat on the females at 20 weeks of age.
- **BW (1 to 16 weeks)** - Avoid over weight issues in the first 16 weeks of the rearing period.
- **BW increase (16 to 20 weeks)** - A BW increase of 36% should occur and this is normally obtained by increasing the feed by 40% in this same period.
- **Fat** - At least 85% of the birds must have pelvic fat before lighting.

BREEDER PERFORMANCE & BW GUIDE

Breeder Performance (Top 25% flocks)			
Age at Depletion	(Weeks)	60	65
	(Days)	420	455
Age at 3% Production	(Weeks)	25	25
	(Days)	175	175
Peak Production	(%)	84	
Total Eggs/Hen Housed		154.0	167.8
Hatching Eggs/Hen Housed	(50g minimum)	149.1	162.4
Peak Hatchability	(%)	90	
Cumulative Hatchability	(%)	87.0	86.3
Broiler Chicks/Hen Housed		129.8	140.2
Livability from 25 Weeks	(%)	92.2	91.4

Cobb 700 Fast Feather BW Guide (Rearing)				
Age Weeks	BW g/bird	BW Gain g/bird	BW lb/bird	BW Gain lb/bird
1	150		0.33	
2	285	135	0.63	0.30
3	410	125	0.90	0.27
4	522	112	1.15	0.25
5	613	91	1.35	0.20
6	704	91	1.55	0.20
7	795	91	1.75	0.20
8	885	90	1.95	0.20
9	976	91	2.15	0.20
10	1067	91	2.35	0.20
11	1158	91	2.55	0.20
12	1249	91	2.75	0.20
13	1339	90	2.95	0.20
14	1430	91	3.15	0.20
15	1544	114	3.40	0.25
16	1657	113	3.65	0.25
17	1793	136	3.95	0.30
18	1930	137	4.25	0.30
19	2088	158	4.60	0.35
20	2247	159	4.95	0.35
21	2406	159	5.30	0.35
22	2565	159	5.65	0.35
23	2724	159	6.00	0.35
24	2883	159	6.35	0.35

***Weights correspond to the weekly anniversary date. Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6 to 7 hours after the last feeding. Another option is to weigh the birds after the lights come on and before feeding takes place. Please consult with your Cobb Technical Advisor for feed and light programs.**

***Please refer to the Cobb Breeder Management Guide for general flock management recommendations, uniformity management, and guidelines concerning post peak feeding. Flock uniformity of 70-78% or 8-10% CV is preferred by 15 to 16 weeks to achieve proper condition prior to light stimulation.**

Cobb 700 Fast Feather BW Guide (Production)				
Age Weeks	BW g/bird	BW Gain g/bird	BW lb/bird	BW Gain lb/bird
25	3042	159	6.70	0.35
26	3178	136	7.00	0.30
27	3292	114	7.25	0.25
28	3360	68	7.40	0.15
29	3405	45	7.50	0.10
30	3450	45	7.60	0.10
31	3496	46	7.70	0.10
32	3519	23	7.75	0.05
33	3541	22	7.80	0.05
34	3564	23	7.85	0.05
35	3587	23	7.90	0.05
36	3605	18	7.94	0.04
37	3623	18	7.98	0.04
38	3637	14	8.01	0.03
39	3650	13	8.04	0.03
40	3664	14	8.07	0.03
41	3677	13	8.10	0.03
42	3691	14	8.13	0.03
43	3705	14	8.16	0.03
44	3718	13	8.19	0.03
45	3732	14	8.22	0.03
46	3746	14	8.25	0.03
47	3759	13	8.28	0.03
48	3773	14	8.31	0.03
49	3786	13	8.34	0.03
50	3800	14	8.37	0.03
51	3814	14	8.40	0.03
52	3827	13	8.43	0.03
53	3841	14	8.46	0.03
54	3854	13	8.49	0.03
55	3868	14	8.52	0.03
56	3877	9	8.54	0.02
57	3886	9	8.56	0.02
58	3895	9	8.58	0.02
59	3904	9	8.60	0.02
60	3913	9	8.62	0.02
61	3923	10	8.64	0.02
62	3932	9	8.66	0.02
63	3941	9	8.68	0.02
64	3950	9	8.70	0.02
65	3959	9	8.72	0.02

BREEDER PERFORMANCE

Breeder Performance (Top 25% Flocks)							
Age Weeks	Total Eggs (%HW)	Hatching Eggs (%HW)	Mortality Cum. (%)	%HE Weekly	Total Eggs /HH	Hatching Eggs/HH	Egg Weight* (g)
24	2.0	0.8	0.25	40.0	0.1	0.1	48.0
25	15.0	11.3	0.50	75.0	1.2	0.8	49.4
26	35.0	28.0	0.75	80.0	3.6	2.8	50.8
27	55.0	49.5	1.05	90.0	7.4	6.2	52.3
28	73.0	67.9	1.45	93.0	12.5	10.9	53.7
29	81.0	77.8	1.95	96.0	18.0	16.2	55.1
30	84.0	81.5	2.35	97.0	23.8	21.8	56.6
31	83.4	81.7	2.60	98.0	29.4	27.4	57.8
32	82.3	80.7	2.85	98.0	35.0	32.9	58.6
33	81.1	79.5	3.10	98.0	40.5	38.3	59.3
34	80.0	78.4	3.35	98.0	46.0	43.6	59.9
35	78.9	77.3	3.55	98.0	51.3	48.8	60.5
36	77.8	76.2	3.75	98.0	56.5	53.9	61.1
37	76.6	75.1	3.95	98.0	61.7	59.0	61.6
38	75.3	73.8	4.15	98.0	66.7	63.9	62.2
39	74.0	72.5	4.35	98.0	71.7	68.8	62.8
40	72.7	71.2	4.55	98.0	76.5	73.5	63.1
41	71.4	69.8	4.75	97.8	81.3	78.2	63.4
42	70.1	68.6	4.95	97.8	86.0	82.7	63.7
43	68.8	67.3	5.15	97.8	90.5	87.2	64.0
44	67.5	66.0	5.35	97.8	95.0	91.6	64.3
45	66.2	64.7	5.55	97.8	99.4	95.9	64.6
46	64.9	63.3	5.75	97.6	103.7	100.0	64.9
47	63.6	62.1	5.90	97.6	107.9	104.1	65.0
48	62.3	60.8	6.05	97.6	112.0	108.1	65.2
49	61.0	59.5	6.20	97.6	116.0	112.0	65.3
50	59.7	58.3	6.35	97.6	119.9	115.9	65.4
51	58.4	56.9	6.50	97.4	123.7	119.6	65.5
52	57.1	55.6	6.65	97.4	127.4	123.2	65.7
53	55.8	54.3	6.80	97.4	131.1	126.8	65.8
54	54.5	53.1	6.95	97.4	134.6	130.2	65.9
55	53.2	51.8	7.10	97.4	138.1	133.6	66.0
56	51.9	50.4	7.25	97.2	141.4	136.9	66.2
57	50.6	49.2	7.40	97.2	144.7	140.1	66.3
58	49.3	47.9	7.55	97.2	147.9	143.2	66.4
59	48.0	46.7	7.70	97.2	151.0	146.2	66.5
60	46.7	45.4	7.85	97.2	154.0	149.1	66.5
61	45.4	44.0	8.00	97.0	157.0	151.9	66.6
62	44.1	42.8	8.15	97.0	159.8	154.7	66.7
63	42.8	41.5	8.30	97.0	162.5	157.4	66.8
64	41.5	40.3	8.45	97.0	165.2	159.9	66.8
65	40.2	39.0	8.60	97.0	167.8	162.4	66.9

***Egg weights are dependent on the BW and production level of the hens, as well as the level of nutrition being fed to the flock. These numbers are a guide only, and could vary considerably according to management conditions.**

Breeder Flock Fertility, Hatchability & Chick Weight									
Age	Fertility (%)		Hatchability (%)		Hatch of Fertiles (%)		Chicks/HH		Chick
Weeks	Weekly	Cum.	Weekly	Cum.	Weekly	Cum.	Weekly	Cum.	Weight (g)
24	88.0	88.0	72.0	72.0	81.8	81.8	0.0	0.0	32.4
25	90.5	90.3	77.0	76.7	85.1	84.9	0.6	0.6	33.3
26	93.0	92.2	80.3	79.2	86.3	85.9	1.6	2.2	34.3
27	94.0	93.2	82.4	81.0	87.7	86.9	2.8	5.0	35.3
28	95.0	94.0	83.9	82.2	88.3	87.5	3.9	9.0	36.2
29	95.5	94.5	85.0	83.1	89.0	88.0	4.5	13.5	37.2
30	96.0	94.9	86.0	83.9	89.6	88.4	4.8	18.3	38.2
31	96.4	95.2	87.0	84.5	90.2	88.8	4.8	23.1	39.0
32	96.6	95.4	88.0	85.1	91.1	89.2	4.8	28.0	39.6
33	96.7	95.6	88.9	85.6	91.9	89.6	4.8	32.8	40.0
34	96.7	95.7	89.5	86.1	92.6	89.9	4.7	37.5	40.4
35	96.7	95.8	90.0	86.5	93.1	90.3	4.7	42.2	40.8
36	96.7	95.9	89.9	86.8	93.0	90.5	4.6	46.8	41.2
37	96.6	96.0	89.7	87.1	92.9	90.7	4.5	51.3	41.6
38	96.6	96.0	89.6	87.3	92.8	90.9	4.4	55.8	42.0
39	96.5	96.1	89.5	87.4	92.7	91.0	4.3	60.1	42.4
40	96.5	96.1	89.4	87.6	92.6	91.1	4.3	64.4	42.6
41	96.4	96.1	89.3	87.7	92.6	91.2	4.2	68.5	42.8
42	96.3	96.1	89.2	87.8	92.6	91.3	4.1	72.6	43.0
43	96.2	96.1	89.0	87.8	92.5	91.4	4.0	76.6	43.2
44	96.1	96.1	88.8	87.9	92.4	91.4	3.9	80.5	43.4
45	96.1	96.1	88.7	87.9	92.3	91.4	3.8	84.3	43.6
46	96.0	96.1	88.4	87.9	92.1	91.5	3.7	88.0	43.8
47	95.8	96.1	88.0	87.9	91.9	91.5	3.6	91.6	43.9
48	95.5	96.1	87.6	87.9	91.7	91.5	3.5	95.1	44.0
49	95.3	96.1	87.2	87.9	91.5	91.5	3.4	98.5	44.1
50	95.0	96.0	86.8	87.9	91.4	91.5	3.3	101.8	44.1
51	94.7	96.0	86.4	87.8	91.2	91.5	3.2	105.0	44.2
52	94.5	95.9	86.0	87.8	91.0	91.5	3.1	108.1	44.3
53	94.2	95.9	85.5	87.7	90.8	91.5	3.0	111.2	44.4
54	93.9	95.8	85.0	87.6	90.5	91.4	2.9	114.1	44.5
55	93.8	95.8	84.5	87.5	90.1	91.4	2.8	116.9	44.6
56	93.5	95.7	84.0	87.5	89.8	91.4	2.8	119.7	44.7
57	92.9	95.7	83.4	87.4	89.8	91.3	2.7	122.4	44.8
58	92.3	95.6	82.8	87.3	89.7	91.3	2.6	124.9	44.8
59	91.6	95.5	82.1	87.2	89.6	91.3	2.5	127.4	44.9
60	90.7	95.4	81.2	87.0	89.5	91.2	2.4	129.8	44.9
61	90.0	95.3	80.3	86.9	89.2	91.2	2.3	132.1	45.0
62	89.1	95.2	79.4	86.8	89.1	91.2	2.2	134.2	45.0
63	88.3	95.1	78.6	86.6	89.0	91.1	2.1	136.3	45.1
64	87.3	95.0	77.6	86.5	88.9	91.1	2.0	138.3	45.1
65	86.5	94.8	76.8	86.3	88.8	91.1	1.9	140.2	45.2

EGG WEIGHT AND GRADING

Egg Weight and Grading							
Age Weeks	Egg Weight (g)	Egg Grading %					
		Small	2 Yolk	Cull	Hairline	Cracked	Floor Eggs
24	48.0	23.4	17.4	6.0	10.2	3.0	50.0
25	49.4	10.5	6.5	2.5	4.0	1.5	40.0
26	50.8	7.8	5.8	2.0	3.4	1.0	25.0
27	52.3	3.7	3.2	1.0	1.6	0.5	15.0
28	53.7	2.0	3.0	0.7	1.0	0.3	10.0
29	55.1	0.8	1.7	0.5	0.8	0.2	7.0
30	56.6	0.5	1.0	0.5	0.8	0.2	3.0
31	57.8	0.1	0.4	0.5	0.8	0.2	2.5
32	58.6	0.1	0.4	0.5	0.8	0.2	2.5
33	59.3	0.0	0.3	0.5	0.7	0.2	<2.0
34	59.9	0.0	0.3	0.5	0.7	0.2	<2.0
35	60.5	0.0	0.2	0.5	0.8	0.3	<2.0
36	61.1	0.0	0.2	0.5	0.8	0.3	<2.0
37	61.6	0.0	0.1	0.5	0.9	0.3	<2.0
38	62.2	0.0	0.1	0.5	0.9	0.3	<2.0
39	62.8	0.0	0.1	0.5	0.9	0.3	<2.0
40	63.1	0.0	0.1	0.5	0.9	0.3	<2.0
41	63.4	0.0	0.1	0.5	0.9	0.3	<2.0
42	63.7	0.0	0.0	0.5	1.0	0.3	<2.0
43	64.0	0.0	0.0	0.5	1.0	0.3	<2.0
44	64.3	0.0	0.0	0.5	1.0	0.3	<2.0
45	64.6	0.0	0.0	0.5	1.0	0.3	<2.0
46	64.9	0.0	0.0	0.5	1.0	0.3	<2.0
47	65.0	0.0	0.0	0.5	1.0	0.3	<2.0
48	65.2	0.0	0.0	0.5	1.0	0.3	<2.0
49	65.3	0.0	0.0	0.5	1.0	0.4	<2.0
50	65.4	0.0	0.0	0.5	1.0	0.4	<2.0
51	65.5	0.0	0.0	0.5	1.0	0.4	<2.0
52	65.7	0.0	0.0	0.5	1.0	0.4	<2.0
53	65.8	0.0	0.0	0.5	1.0	0.4	<2.0
54	65.9	0.0	0.0	0.5	1.0	0.4	<2.0
55	66.0	0.0	0.0	0.5	1.0	0.4	<2.0
56	66.2	0.0	0.0	0.5	1.0	0.4	<2.0
57	66.3	0.0	0.0	0.5	1.0	0.4	<2.0
58	66.4	0.0	0.0	0.5	1.0	0.4	<2.0
59	66.5	0.0	0.0	0.5	1.0	0.4	<2.0
60	66.5	0.0	0.0	0.5	1.0	0.4	<2.0
61	66.6	0.0	0.0	0.5	1.0	0.4	<2.0
62	66.7	0.0	0.0	0.5	1.0	0.4	<2.0
63	66.8	0.0	0.0	0.5	1.0	0.4	<2.0
64	66.8	0.0	0.0	0.5	1.0	0.4	<2.0
65	66.9	0.0	0.0	0.5	1.0	0.4	<2.0

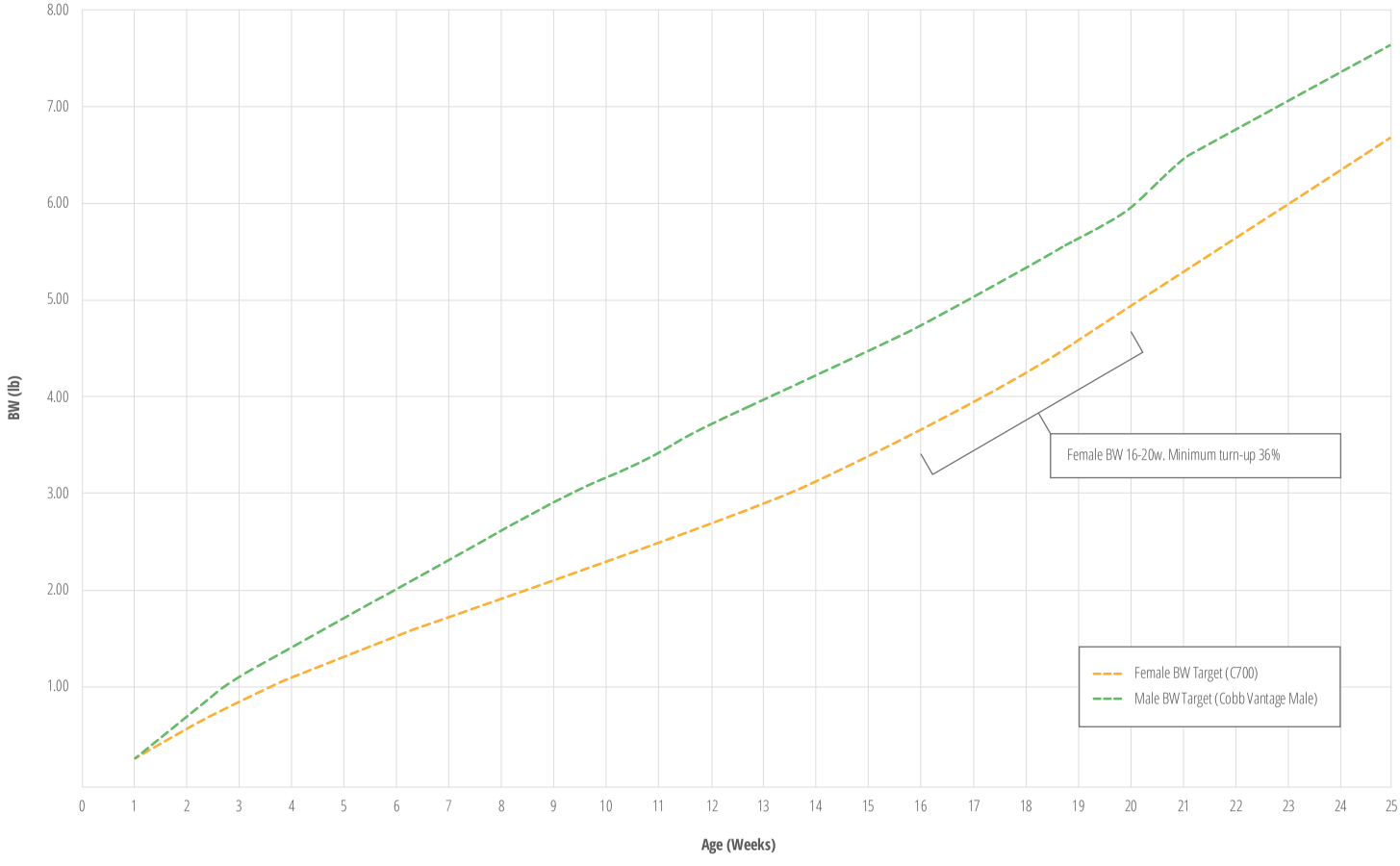
Age Weeks	Fertility (%)	Hatchability (%)	Embryo Diagnosis				HOF (%)
			Embryo Diagnosis %				
			Infertile	Early	Mid	Late	
24	88.0	72.0	12.0	7.3	0.7	8.0	81.8
25	90.5	77.0	9.5	6.0	0.7	6.8	85.1
26	93.0	80.3	7.2	5.5	0.7	6.3	86.3
27	94.0	82.4	6.0	5.0	0.7	5.9	87.7
28	95.0	83.9	5.1	4.8	0.7	5.5	88.3
29	95.5	85.0	4.5	4.6	0.7	5.2	89.0
30	96.0	86.0	4.0	4.3	0.7	5.0	89.6
31	96.4	87.0	3.6	4.1	0.7	4.6	90.2
32	96.6	88.0	3.4	3.6	0.7	4.3	91.1
33	96.7	88.9	3.3	3.3	0.7	3.8	91.9
34	96.7	89.5	3.3	3.0	0.7	3.5	92.6
35	96.7	90.0	3.3	2.8	0.7	3.2	93.1
36	96.7	89.9	3.3	2.8	0.7	3.3	93.0
37	96.6	89.7	3.4	2.8	0.7	3.4	92.9
38	96.6	89.6	3.4	2.9	0.7	3.4	92.8
39	96.5	89.5	3.5	2.9	0.7	3.4	92.7
40	96.5	89.4	3.5	2.9	0.7	3.5	92.6
41	96.4	89.3	3.6	2.9	0.7	3.5	92.6
42	96.3	89.2	3.6	3.0	0.7	3.5	92.6
43	96.2	89.0	3.8	3.0	0.7	3.5	92.5
44	96.1	88.8	3.9	3.1	0.7	3.5	92.4
45	96.1	88.7	3.9	3.2	0.7	3.6	92.3
46	96.0	88.4	4.0	3.2	0.7	3.7	92.1
47	95.8	88.0	4.2	3.4	0.7	3.7	91.9
48	95.5	87.6	4.5	3.4	0.7	3.9	91.7
49	95.3	87.2	4.7	3.4	0.7	4.0	91.5
50	95.0	86.8	5.0	3.5	0.7	4.0	91.4
51	94.7	86.4	5.3	3.6	0.7	4.1	91.2
52	94.5	86.0	5.5	3.6	0.7	4.2	91.0
53	94.2	85.5	5.8	3.7	0.7	4.3	90.8
54	93.9	85.0	6.1	3.8	0.7	4.4	90.5
55	93.8	84.5	6.2	4.2	0.7	4.4	90.1
56	93.5	84.0	6.5	4.2	0.7	4.6	89.8
57	92.9	83.4	7.1	4.2	0.7	4.6	89.8
58	92.3	82.8	7.7	4.2	0.7	4.6	89.7
59	91.6	82.1	8.4	4.2	0.7	4.6	89.6
60	90.7	81.2	9.3	4.2	0.7	4.6	89.5
61	90.0	80.3	10.0	4.4	0.7	4.6	89.2
62	89.1	79.4	10.9	4.4	0.7	4.6	89.1
63	88.3	78.6	11.7	4.4	0.7	4.6	89.0
64	87.3	77.6	12.7	4.4	0.7	4.6	88.9
65	86.5	76.8	13.5	4.4	0.7	4.6	88.8

Cobb 700™ (Vantage Male) Rearing Management Record (Pounds)

Company			**Breeder Farm**		House Number:
Rearing Farm		House Number:	**Date Moved**	Female	Male
Placement Date	Female	Male	**Number Transferred**	Female	Male
Number Placed	Female	Male	**Point-of-lay Number**	Female	Male

Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6-7 hours after the last feeding.

Age	Weeks / Days	0	1 7	2 14	3 21	4 28	5 35	6 42	7 49	8 56	9 63	10 70	11 77	12 84	13 91	14 98	15 105	16 112	17 119	18 126	19 133	20 140	21 147	22 154	23 161	25 168	25 175
Female BW	Female BW Target **(C700)**		0.33	0.63	0.90	1.15	1.35	1.55	1.75	1.95	2.15	2.35	2.55	2.75	2.95	3.15	3.40	3.65	3.95	4.25	4.60	4.95	5.30	5.65	6.00	6.35	6.70
	Female BW Actual																										
	Weekly Gain																										
	Female Uniformity																										
Female Feed	Female Feed Actual (lb/100)																										
	Feed Energy																										
	Feed Type																										
Female Depletion	Female # of Birds																										
	Female Weekly (%)																										
	Female Cumulative (%)																										
Male BW	Male BW Target **(Cobb Vantage Male)**		0.32	0.75	1.15	1.45	1.75	2.05	2.35	2.65	2.95	3.20	3.45	3.75	4.00	4.25	4.50	4.75	5.05	5.35	5.65	5.95	6.45	6.75	7.05	7.35	7.65
	Male BW Actual																										
	Male Uniformity																										
Male Feed	Male Feed Actual (lb/100)																										
	Feed Energy																										
	Feed Type																										
Male Depletion	Male # of Birds																										
	Male Weekly (%)																										
	Male Cumulative (%)																										
	Light Hours																										
	Water Consumption																										
	Temperature																										


8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
BW (lb)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Age (Weeks)
Female BW 16-20w. Minimum turn-up 36%
Female BW Target (C700)
Male BW Target (Cobb Vantage Male)

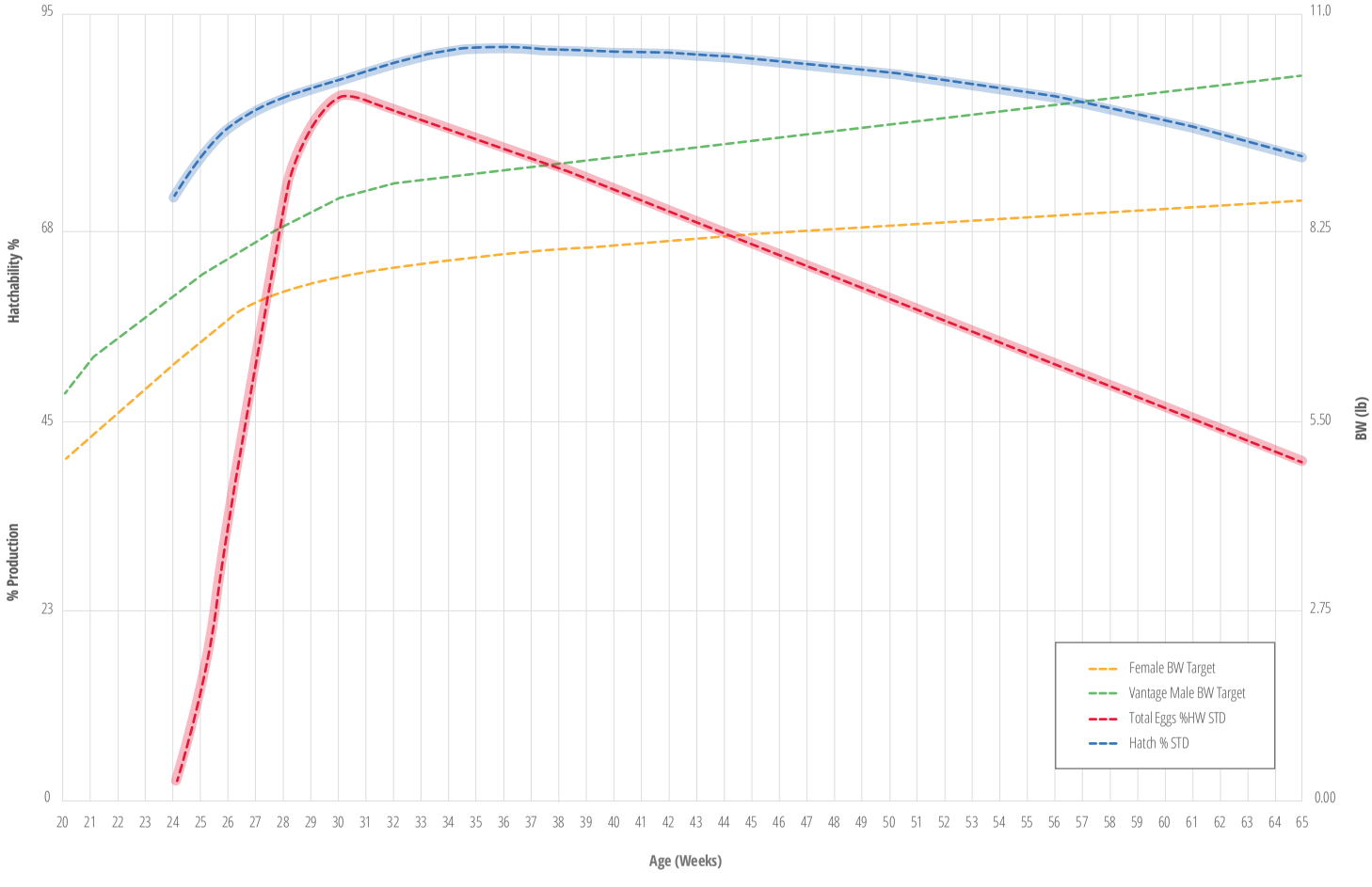
Cobb 700™ (Vantage Male) Laying Management Record (Pounds)

Company			
Rearing Farm		House Number:	
Placement Date	Female	Male	
Number Placed	Female	Male	

Breeder Farm		House Number:	
Date Moved	Female	Male	
Number Transferred	Female	Male	
Point-of-lay Number	Female	Male	
Age at Light Stimulation			

Age (Wks)	Date	Female No.	Male No.	Total Eggs %HW Actual	Female Feed Actual (lb/100)	Female BW Target	Female BW Actual	Male Feed Actual (lb/100)	Vantage Male BW Target	Male BW Actual	Hatch % Actual
20						4.95			5.95		
21						5.30			6.45		
22						5.65			6.75		
23						6.00			7.05		
24						6.35			7.35		
25						6.70			7.65		
26						7.00			7.90		
27						7.25			8.15		
28						7.40			8.35		
29						7.50			8.55		
30						7.60			8.75		
31						7.70			8.85		
32						7.75			8.95		
33						7.80			9.00		
34						7.85			9.05		
35						7.90			9.10		
36						7.94			9.15		
37						7.98			9.20		
38						8.01			9.25		
39						8.04			9.30		
40						8.07			9.35		
41						8.10			9.40		
42						8.13			9.45		

Age (Wks)	Date	Female No.	Male No.	Total Eggs %HW Actual	Female Feed Actual (lb/100)	Female BW Target	Female BW Actual	Male Feed Actual (lb/100)	Vantage Male BW Target	Male BW Actual	Hatch % Actual
43						8.16			9.50		
44						8.19			9.55		
45						8.22			9.60		
46						8.25			9.65		
47						8.28			9.70		
48						8.31			9.75		
49						8.34			9.80		
50						8.37			9.85		
51						8.40			9.90		
52						8.43			9.95		
53						8.46			10.00		
54						8.49			10.05		
55						8.52			10.10		
56						8.54			10.15		
57						8.56			10.20		
58						8.58			10.23		
59						8.60			10.27		
60						8.62			10.31		
61						8.64			10.35		
62						8.66			10.39		
63						8.68			10.43		
64						8.70			10.46		
65						8.72			10.50		

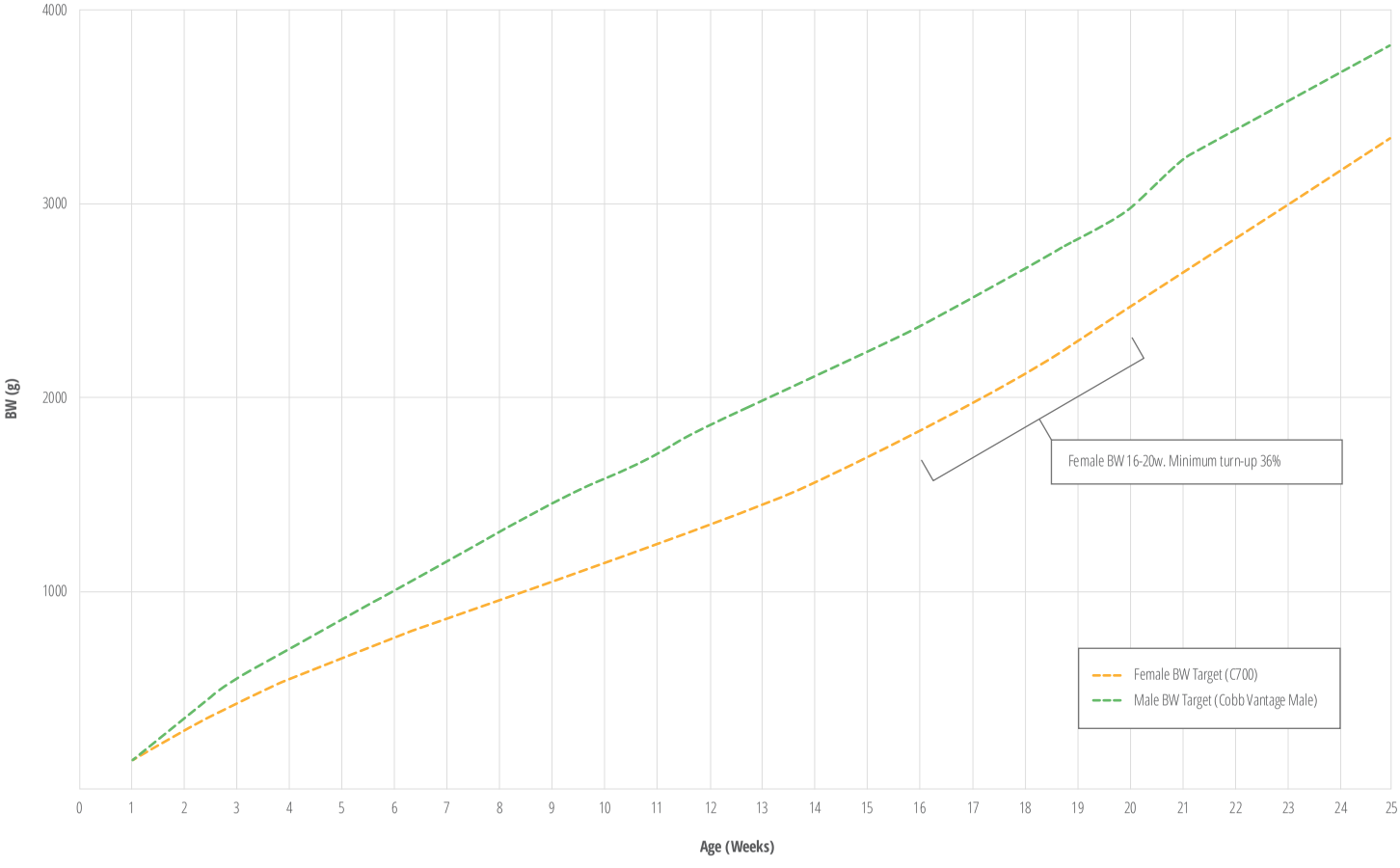

95
68
45
23
0
Hatchability %
% Production
11.0
8.25
5.50
2.75
0.00
BW (lb)
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
Age (Weeks)
Female BW Target
Vantage Male BW Target
Total Eggs %HW STD
Hatch % STD

Cobb 700™ (Vantage Male) Rearing Management Record (Grams)

Company				Breeder Farm			House Number:
Rearing Farm		House Number:		Date Moved	Female		Male
Placement Date	Female		Male	Number Transferred	Female		Male
Number Placed	Female		Male	Point-of-lay Number	Female		Male

Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6-7 hours after the last feeding.

Age	Weeks		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	25	25
	Days	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147	154	161	168	175
Female BW	Female BW Target (C700)		150	285	410	522	613	704	795	885	976	1067	1158	1249	1339	1430	1544	1657	1793	1930	2088	2247	2406	2565	2724	2883	3042
	Female BW Actual																										
	Weekly Gain																										
	Female Uniformity																										
Female Feed	Female Feed Actual (g/b/d)																										
	Feed Energy																										
	Feed Type																										
Female Depletion	Female # of Birds																										
	Female Weekly (%)																										
	Female Cumulative (%)																										
Male BW	Male BW Target (Cobb Vantage Male)		145	340	522	658	794	930	1066	1202	1338	1451	1565	1701	1814	1928	2041	2155	2291	2427	2563	2699	2926	3062	3198	3334	3470
	Male BW Actual																										
	Male Uniformity																										
Male Feed	Male Feed Actual (g/b/d)																										
	Feed Energy																										
	Feed Type																										
Male Depletion	Male # of Birds																										
	Male Weekly (%)																										
	Male Cumulative (%)																										
	Light Hours																										
	Water Consumption																										
	Temperature																										


4000
3000
2000
1000
BW (g)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Age (Weeks)
Female BW 16-20w. Minimum turn-up 36%
Female BW Target (C700)
Male BW Target (Cobb Vantage Male)

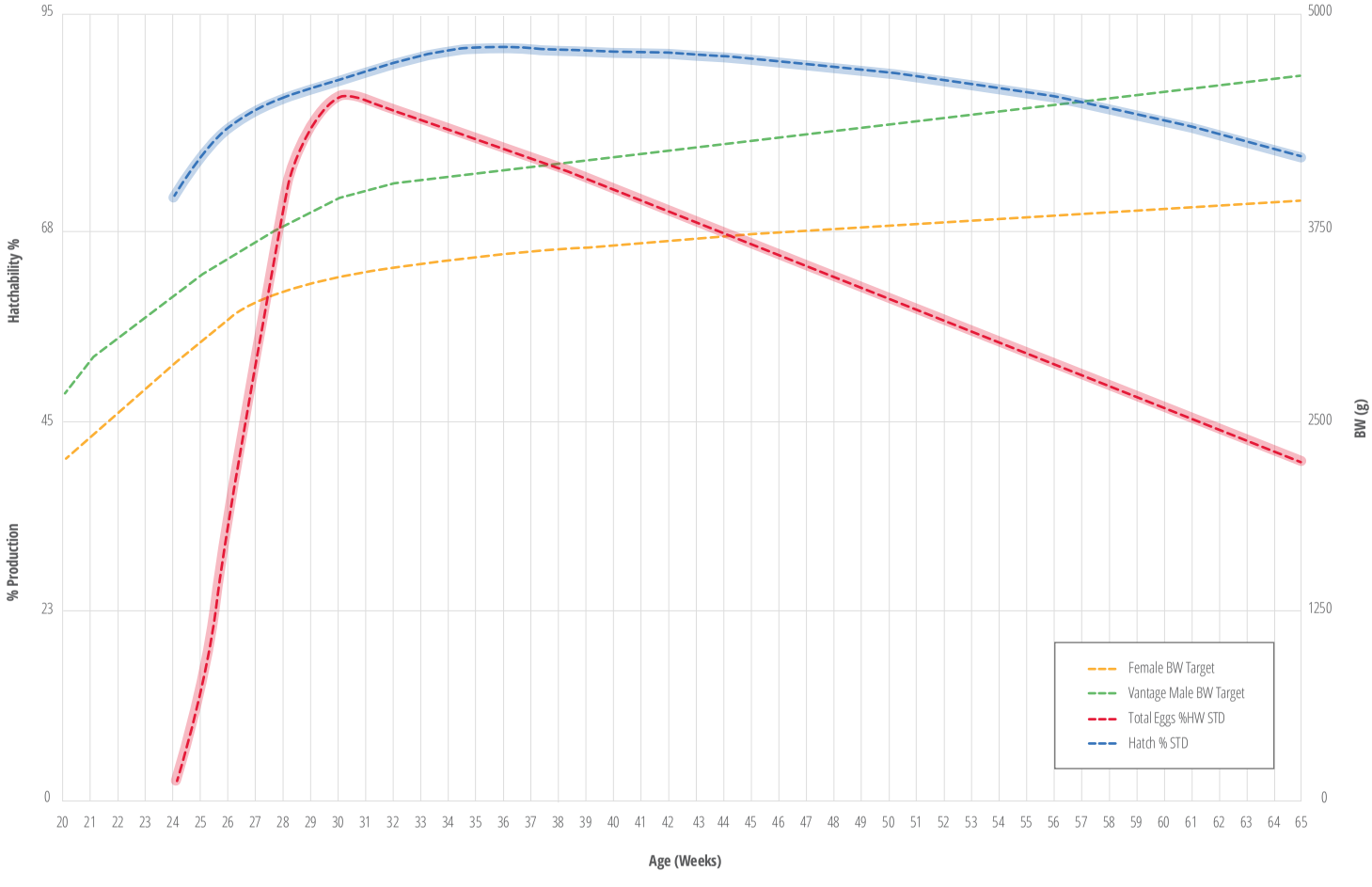
Cobb 700™ (Vantage Male) Laying Management Record (Grams)

Company			
Rearing Farm		House Number:	
Placement Date	Female	Male	
Number Placed	Female	Male	

Breeder Farm		House Number:	
Date Moved	Female	Male	
Number Transferred	Female	Male	
Point-of-lay Number	Female	Male	
Age at Light Stimulation			

Age (Wks)	Date	Female No.	Male No.	Total Eggs %HW Actual	Female Feed Actual (g/b/d)	Female BW Target	Female BW Actual	Male Feed Actual (g/b/d)	Vantage Male BW Target	Male BW Actual	Hatch % Actual
20						2247			2699		
21						2406			2926		
22						2565			3062		
23						2724			3198		
24						2883			3334		
25						3042			3470		
26						3178			3583		
27						3292			3697		
28						3360			3787		
29						3405			3878		
30						3450			3969		
31						3496			4014		
32						3519			4060		
33						3541			4082		
34						3564			4105		
35						3587			4128		
36						3605			4150		
37						3623			4173		
38						3637			4196		
39						3650			4218		
40						3664			4241		
41						3677			4264		
42						3691			4286		

Age (Wks)	Date	Female No.	Male No.	Total Eggs %HW Actual	Female Feed Actual (g/b/d)	Female BW Target	Female BW Actual	Male Feed Actual (g/b/d)	Vantage Male BW Target	Male BW Actual	Hatch % Actual
43						3705			4309		
44						3718			4332		
45						3732			4354		
46						3746			4377		
47						3759			4400		
48						3773			4423		
49						3786			4445		
50						3800			4468		
51						3814			4491		
52						3827			4513		
53						3841			4536		
54						3854			4559		
55						3868			4581		
56						3877			4604		
57						3886			4627		
58						3895			4640		
59						3904			4658		
60						3913			4677		
61						3923			4695		
62						3932			4713		
63						3941			4731		
64						3950			4745		
65						3959			4763		


95
68
45
23
0
Hatchability %
% Production
5000
3750
2500
1250
0
BW (g)
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65
Age (Weeks)
Female BW Target
Vantage Male BW Target
Total Eggs %HW STD
Hatch % STD

NUTRIENT & DIGESTIBLE AMINO ACID LEVELS

Recommended Nutrient Levels for Cobb700 Parent Stock Breeders

Phase Age (Days)	Unit	Starter 0 - 28		Grower 29 - 105 d		Developer 106 - 1st Egg		Breeder 1 1st Egg - 266		Breeder 2 >267 d		Male* >168 d	
Metabolizable Energy[a]	MJ/kg kcal/kg kcal/lb	12.13 2900 1315		11.30 2700 1225		11.72 2800 1270		11.92 2850 1293		12.13 2900 1315		11.30 2700 1225	
Crude Protein	%	19.0		14.5		15.0		15.0		14.5		13.0	
Calcium	%	0.95		0.95		1.20		3.00		3.20		0.95	
Av. Phosphorus	%	0.45		0.42		0.42		0.42		0.38		0.42	
Sodium	%	0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24	
Chloride	%	0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24		0.15 - 0.24	
Potassium	%	0.60		0.60		0.60		0.60		0.60		0.60	
Linoleic Acid	%	1.00		1.00		1.00		1.25		1.25		1.00	
Amino Acids	Unit	Dig.	Total	Dig.	Total	Dig.	Total	Dig.	Total	Dig.	Total	Dig.	Total
Lysine	%	0.93	1.04	0.60	0.72	0.63	0.74	0.63	0.72	0.60	0.68	0.50	0.58
Methionine	%	0.42	0.46	0.31	0.33	0.33	0.33	0.33	0.37	0.31	0.35	0.28	0.32
M + C	%	0.70	0.78	0.51	0.63	0.54	0.63	0.55	0.62	0.52	0.59	0.48	0.55
Tryptophan	%	0.20	0.23	0.13	0.19	0.14	0.19	0.14	0.16	0.13	0.15	0.12	0.14
Threonine	%	0.65	0.73	0.45	0.61	0.47	0.61	0.47	0.55	0.45	0.52	0.44	0.51
Arginine	%	0.98	1.10	0.66	0.74	0.69	0.7	0.69	0.79	0.66	0.75	0.55	0.63
Valine	%	0.67	0.70	0.45	0.55	0.48	0.56	0.47	0.54	0.45	0.51	0.38	0.43
Isoleucine	%	0.63	0.73	0.42	0.61	0.44	0.61	0.44	0.50	0.42	0.48	0.40	0.46

***Change to male feed is suggested at 28 weeks of age. However it can be earlier at 21 to 22 weeks if males are consuming feed from female feeders.**

a. If the energy level needs to be adjusted for local conditions, then all other nutrients (protein/amino acids) need to be adjusted at the same ratio.

b. Assuming daily peak metabolizable energy consumption of 445 kcal/kg @ 30 weeks of age.

c. Assuming daily peak metabolizable energy consumption of 400 kcal/kg @ 58 weeks of age.

Digestible Amino Acid Levels

Recommended Digestible Amino Acid Levels Based on Amino Acid/Lysine Ratios

Phase	Starter	Grower	Developer	Breeder 1	Breeder 2	Male*
Lysine	100%	100%	100%	100%	100%	100%
Methionine	45%	52%	52%	52%	52%	55%
M + C	75%	85%	85%	87%	87%	95%
Tryptophan	21%	22%	22%	22%	22%	24%
Threonine	70%	75%	75%	75%	75%	87%
Arginine	105%	110%	110%	110%	110%	110%
Valine	72%	75%	75%	75%	75%	75%
Isoleucine	68%	70%	70%	70%	70%	80%

***Change to male feed is suggested at 28 weeks of age. However it can be earlier at 21 to 22 weeks if males are consuming feed from female feeders.**

Supplementary Vitamins and Trace Elements

Recommended Supplementary Levels of Vitamins and Trace Elements Per Metric Tonne Basis

Nutrients	Unit	Starter/Developer/Males	Breeders in Production
Vit. A (Maize Diets)	KIU	10,000	12,000
Vit A (Wheat Diets)	KIU	11,000	13,000
Vit. D3	KIU	3,500	3,500
Vit. E	KIU	100	100
Vit. K	g	3	6
Thiamine	g	2.75	3
Riboflavin	g	8	13
Pantothenic Acid	g	15	20
Niacin	g	40	50
Pyridoxine	g	3	6
Folic Acid	g	2	3
Vit. B12	g	0.025	0.035
Biotin (Maize Diets)	g	0.25	0.3
Biotin (Wheat Diets)	g	0.3	0.375
Choline	g	500	500
Manganese	g	100	120
Zinc	g	100	110
Iron	g	20 - 50	40 - 55
Copper	g	10 - 15	10 - 15
Iodine	g	1.5	2.0
Selenium	g	0.3	0.3

KIU = thousand international units

g = grams

Supplementary levels of vitamins and trace elements should always be reviewed to ensure total levels do not exceed those set in local legislation.

www.cobb-vantress.com
L-004-01-20 EN