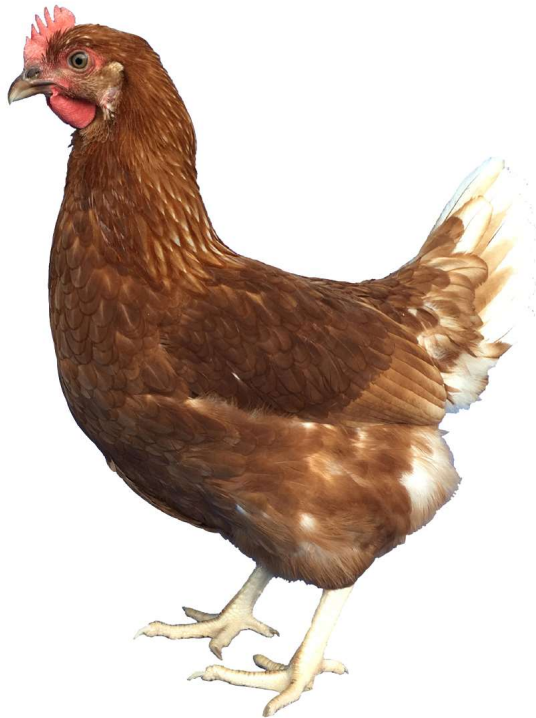


BOND BROWN LAYER



PERFORMANCE GUIDE

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Summary

This guide provides current body weight targets for the successful rearing of pullets, together with detailed information about the performance capabilities of the BOND BROWN LAYER.

Information regarding the recommended management procedures to achieve the performance capabilities of the BOND BROWN LAYER is available in the publication “Layer Management Guide”.

Performance Guide

GROWING PERIOD (to 18 weeks)

Livability	97-98%
Feed Consumed	6.19 kg
Body Weight at 18 weeks	1.51 kg

LAYING PERIOD (to 80 weeks)

Peak Production	93-95%
Hen Housed Eggs	358
Livability	94-96%
Days to 50% Production	139
Egg Weight at 40 weeks	63.3 g
Freedom from Egg Inclusions	Excellent
Shell Strength	Excellent
Shell Colour	Brown
Average Daily Feed Consumption (18-80 weeks)	110-115 g
Kg Feed per Kg Eggs (18-80 weeks)	2.10-2.15 kg

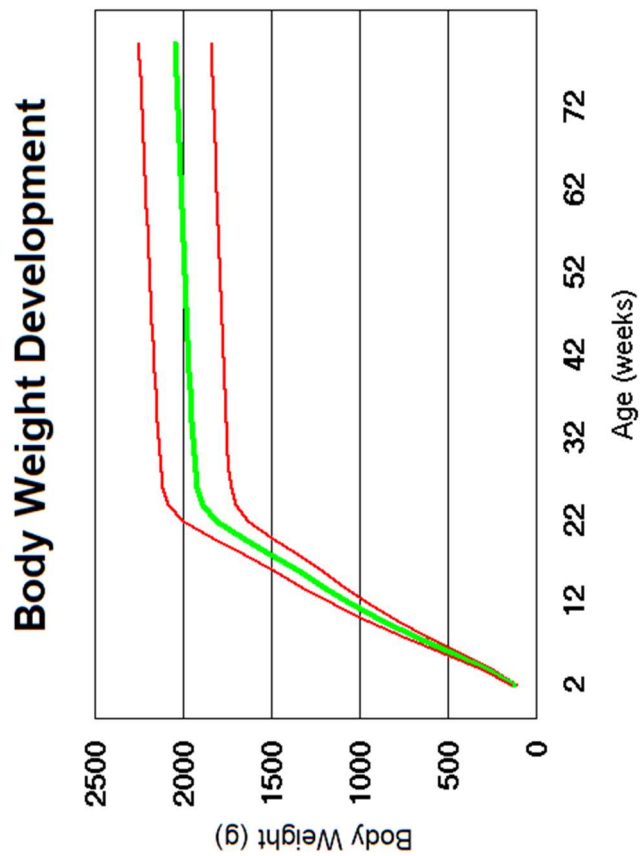
BIRD ATTRIBUTES

Condition of Droppings	Dry
Temperament	Calm
Adaptation to Environment	Excellent

Lifetime Body Weight Targets Bond Brown Layer

Age (weeks)	Average Weight (g)	Age (weeks)	Average Weight (g)	Age (weeks)	Average Weight (g)
2	130	30	1945	58	2006
4	275	32	1950	60	2010
6	476	34	1955	62	2014
8	687	36	1960	64	2018
10	878	38	1965	66	2022
12	1051	40	1970	68	2026
14	1210	42	1974	70	2030
16	1350	44	1978	72	2034
18	1510	46	1982	74	2038
20	1671	48	1986	76	2042
22	1819	50	1990	78	2046
24	1897	52	1994	80	2050
26	1927	54	1998		
28	1936	56	2002		

The above data provides target body weights during rearing and expected body weights during lay. Variations around these target/expected body weights are normal but should be within $\pm 10\%$ of the average weight as displayed in the following graph.



Rearing Body Weight and Expected Feed Intake

Age (weeks)	Body Weight (g)		Feed Intake (g/bird/day)
	Target	Range	
1	75	68 83	10
2	130	117 143	16
3	195	176 215	21
4	275	248 303	26
5	367	330 404	33
6	476	428 524	41
7	584	526 642	46
8	687	618 756	50
9	784	706 862	54
10	878	790 966	58
11	965	869 1062	61
12	1051	946 1156	64
13	1129	1016 1242	66
14	1210	1089 1331	69
15	1274	1147 1401	70
16	1350	1215 1485	71
17	1417	1275 1559	73
18	1510	1359 1661	76
19	1570	1413 1727	82
20	1671	1504 1838	92

Egg Production Goals

Age (weeks)	Production HH (%)	Cumulative Eggs (HH)	Egg Weight (g)	Cumulative HH Egg Mass (kg)
18	2.0	0.14	45.0	0.01
19	15.0	1.19	47.0	0.06
20	33.9	3.56	50.4	0.18
21	59.7	7.74	51.7	0.39
22	73.1	12.86	53.2	0.66
23	78.7	18.37	54.5	0.96
24	81.6	24.08	55.8	1.28
25	84.2	29.97	57.3	1.62
26	86.7	36.04	58.8	1.98
27	89.0	42.27	60.1	2.35
28	91.1	48.65	61.2	2.74
29	93.0	55.16	62.2	3.15
30	94.0	61.80	63.1	3.57
31	94.4	68.40	63.2	3.98
32	94.0	74.98	63.4	4.40
33	93.6	81.54	63.5	4.82
34	93.2	88.06	63.7	5.23
35	92.8	94.56	63.8	5.65
36	92.4	101.02	63.9	6.06
37	92.0	107.46	64.1	6.47
38	91.6	113.88	64.2	6.88
39	91.2	120.26	64.4	7.30
40	90.8	126.62	64.5	7.70
41	90.4	132.94	64.6	8.11
42	90.0	139.24	64.8	8.52
43	89.6	145.52	64.9	8.93
44	89.2	151.76	65.1	9.34
45	88.8	157.98	65.2	9.74

Egg Production Goals

Age (weeks)	Production HH (%)	Cumulative Eggs (HH)	Egg Weight (g)	Cumulative HH Egg Mass (kg)
46	88.4	164.16	65.3	10.15
47	88.0	170.32	65.5	10.55
48	87.6	176.46	65.6	10.95
49	87.2	182.56	65.8	11.35
50	86.8	188.64	65.9	11.75
51	86.4	194.68	66.0	12.15
52	86.0	200.70	66.2	12.55
53	85.6	206.70	66.3	12.95
54	85.2	212.66	66.5	13.34
55	84.8	218.60	66.6	13.74
56	84.4	224.50	66.7	14.13
57	84.0	230.38	66.9	14.53
58	83.6	236.24	67.0	14.92
59	83.2	242.06	67.2	15.31
60	82.8	247.86	67.3	15.70
61	82.4	253.62	67.4	16.09
62	82.0	259.36	67.6	16.48
63	81.6	265.08	67.7	16.86
64	81.2	270.76	67.9	17.25
65	80.8	276.42	68.0	17.63
66	80.4	282.04	68.1	18.02
67	80.0	287.64	68.3	18.40
68	79.6	293.22	68.4	18.78
69	79.2	298.76	68.6	19.16
70	78.8	304.28	68.7	19.54

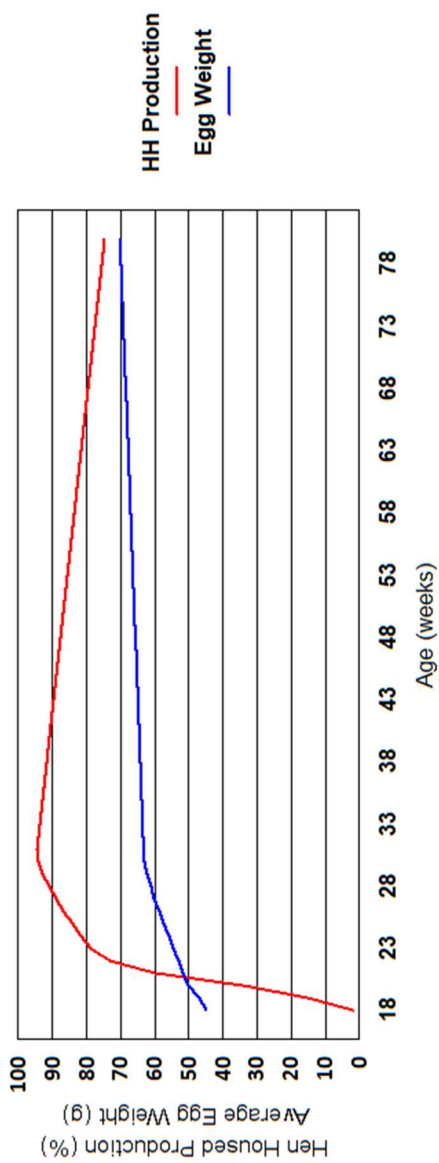
Egg Production Goals

Age (weeks)	Production HH (%)	Cumulative Eggs (HH)	Egg Weight (g)	Cumulative HH Egg Mass (kg)
71	78.4	309.76	68.8	19.92
72	78.0	315.22	69.0	20.30
73	77.6	320.66	69.1	20.67
74	77.2	326.06	69.3	21.04
75	76.8	331.44	69.4	21.42
76	76.4	336.78	69.5	21.79
77	76.0	342.10	69.7	22.16
78	75.6	347.40	69.8	22.53
79	75.2	352.66	70.0	22.90
80	74.8	357.90	70.1	23.27

The above production goals were obtained by feeding a Phase 1 ration for the whole production cycle to fully determine the genetic capability of the Bond Brown Layer.

In most commercial circumstances the egg weights obtained will be too high, which will necessitate phase feeding to maintain production but limit increases in egg size.

Bond Brown Layer Egg Production Goals



Expected Egg Grade Distribution

Age (weeks)	Egg Wt (g)	% Under < 42g	% Medium 42-49.9g	% Large 50-58.2g	% XLarge 58.3-66.6g	% Jumbo 66.7-70.0g	% King 70.1-78g
18	45.0	10.0	71.0	19.0	0.0	0.0	0.0
19	47.0	5.0	63.0	32.0	0.0	0.0	0.0
20	50.4	2.7	46.0	50.3	1.0	0.0	0.0
21	51.7	1.6	33.0	57.0	8.3	0.1	0.0
22	53.2	1.0	25.0	59.3	14.4	0.3	0.0
23	54.5	0.5	16.3	60.3	22.1	0.8	0.0
24	55.8	0.3	12.6	55.9	29.5	1.6	0.1
25	57.3	0.3	7.9	49.6	38.5	3.4	0.3
26	58.8	0.2	4.7	41.5	46.7	6.2	0.7
27	60.1	0.0	2.9	33.9	52.5	9.3	1.4
28	61.2	0.0	1.3	28.0	56.9	11.9	1.9
29	62.2	0.0	0.7	22.5	59.5	14.9	2.4
30	63.1	0.0	0.4	18.9	59.2	17.6	3.9
31	63.2	0.0	0.4	17.9	58.2	19.2	4.3
32	63.4	0.0	0.4	17.5	56.8	20.5	4.8
33	63.5	0.0	0.4	16.2	57.0	21.1	5.3
34	63.7	0.0	0.4	15.5	56.2	21.7	6.2
35	63.8	0.0	0.4	14.8	55.7	22.4	6.7
36	63.9	0.0	0.4	14.3	55.4	22.8	7.1
37	64.1	0.0	0.4	13.7	54.4	23.5	8.0
38	64.2	0.0	0.4	13.7	53.4	23.9	8.6
39	64.4	0.0	0.4	12.9	52.9	24.6	9.2
40	64.5	0.0	0.4	12.9	52.0	24.8	9.9
41	64.6	0.0	0.4	12.6	51.7	25.1	10.2
42	64.8	0.0	0.4	12.2	50.4	25.6	11.4
43	64.9	0.0	0.4	12.0	49.8	26.0	11.8

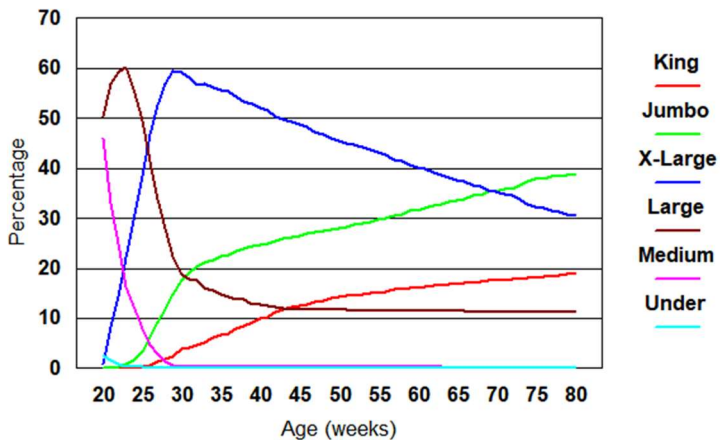
Expected Egg Grade Distribution

Age (weeks)	Egg Wt (g)	% Under < 42g	% Medium 42-49.9g	% Large 50-58.2g	% XLarge 58.3-66.6g	% Jumbo 66.7-70.0g	% King 70.1-78g
44	65.1	0.0	0.3	11.9	49.3	26.3	12.2
45	65.2	0.0	0.3	11.8	48.8	26.6	12.5
46	65.3	0.0	0.3	11.8	48.3	26.9	12.7
47	65.5	0.0	0.3	11.8	47.4	27.2	13.3
48	65.6	0.0	0.3	11.7	46.9	27.5	13.6
49	65.8	0.0	0.3	11.7	46.0	27.8	14.2
50	65.9	0.0	0.3	11.7	45.5	28.1	14.4
51	66.0	0.0	0.3	11.7	45.1	28.4	14.5
52	66.2	0.0	0.3	11.6	44.7	28.7	14.7
53	66.3	0.0	0.3	11.6	44.2	29.1	14.8
54	66.5	0.0	0.3	11.6	43.7	29.4	15.0
55	66.6	0.0	0.3	11.6	43.2	29.7	15.2
56	66.7	0.0	0.3	11.6	42.7	30.0	15.4
57	66.9	0.0	0.3	11.5	41.8	30.6	15.8
58	67.0	0.0	0.3	11.5	41.4	30.9	15.9
59	67.2	0.0	0.3	11.5	40.6	31.5	16.1
60	67.3	0.0	0.3	11.5	40.3	31.7	16.2
61	67.4	0.0	0.3	11.5	39.9	32.0	16.3
62	67.6	0.0	0.3	11.5	39.1	32.6	16.5
63	67.7	0.0	0.3	11.5	38.7	32.9	16.6
64	67.9	0.0	0.2	11.5	38.1	33.4	16.8
65	68.0	0.0	0.2	11.5	37.7	33.7	16.9
66	68.1	0.0	0.2	11.5	37.4	33.9	17.0
67	68.3	0.0	0.2	11.4	36.7	34.5	17.2
68	68.4	0.0	0.2	11.4	36.4	34.7	17.3
69	68.6	0.0	0.2	11.4	35.6	35.3	17.5

Expected Egg Grade Distribution

Age (weeks)	Egg Wt (g)	% Under < 42g	% Medium 42-49.9g	% Large 50-58.2g	% XLarge 58.3-66.6g	% Jumbo 66.7-70.0g	% King 70.1-78g
70	68.7	0.0	0.2	11.4	35.3	35.5	17.6
71	68.8	0.0	0.2	11.4	34.9	35.8	17.7
72	69.0	0.0	0.2	11.4	34.7	35.9	17.8
73	69.1	0.0	0.2	11.4	33.8	36.7	17.9
74	69.3	0.0	0.2	11.4	32.9	37.4	18.1
75	69.4	0.0	0.2	11.4	32.4	37.8	18.2
76	69.5	0.0	0.2	11.4	32.1	38.0	18.3
77	69.7	0.0	0.2	11.4	31.6	38.3	18.5
78	69.8	0.0	0.2	11.4	31.3	38.5	18.6
79	70.0	0.0	0.2	11.4	30.9	38.7	18.8
80	70.1	0.0	0.2	11.4	30.6	38.9	18.9

Egg Grade Distribution



Feed Efficiency

Age (weeks)	Egg Mass (kg/day)	Intake 110g/day		Intake 115g/day	
		kg/kg	kg/Doz	kg/kg	kg/Doz
18	0.01	122.22	66.00	127.78	69.00
19	0.05	15.60	8.80	16.31	9.20
20	0.12	6.44	3.89	6.73	4.07
21	0.22	3.56	2.21	3.73	2.31
22	0.27	2.83	1.81	2.96	1.89
23	0.30	2.57	1.68	2.68	1.75
24	0.32	2.42	1.62	2.53	1.69
25	0.34	2.28	1.57	2.38	1.64
26	0.36	2.16	1.52	2.26	1.59
27	0.37	2.06	1.48	2.15	1.55
28	0.39	1.97	1.45	2.06	1.51
29	0.40	1.90	1.42	1.99	1.48
30	0.42	1.84	1.39	1.92	1.46
31	0.42	1.84	1.40	1.93	1.46
32	0.42	1.85	1.40	1.93	1.47
33	0.42	1.85	1.41	1.93	1.47
34	0.42	1.85	1.42	1.94	1.48
35	0.41	1.86	1.42	1.94	1.49
36	0.41	1.86	1.43	1.95	1.49
37	0.41	1.87	1.43	1.95	1.50
38	0.41	1.87	1.44	1.95	1.51
39	0.41	1.87	1.45	1.96	1.51
40	0.41	1.88	1.45	1.96	1.52
41	0.41	1.88	1.46	1.97	1.53
42	0.41	1.89	1.47	1.97	1.53
43	0.41	1.89	1.47	1.98	1.54
44	0.41	1.90	1.48	1.98	1.55
45	0.41	1.90	1.49	1.99	1.55

Feed Efficiency

Age (weeks)	Egg Mass (kg/day)	Intake 110g/day		Intake 115g/day	
		kg/kg	kg/Doz	kg/kg	kg/Doz
46	0.40	1.90	1.49	1.99	1.56
47	0.40	1.91	1.50	2.00	1.57
48	0.40	1.91	1.51	2.00	1.58
49	0.40	1.92	1.51	2.01	1.58
50	0.40	1.92	1.52	2.01	1.59
51	0.40	1.93	1.53	2.02	1.60
52	0.40	1.93	1.53	2.02	1.60
53	0.40	1.94	1.54	2.03	1.61
54	0.40	1.94	1.55	2.03	1.62
55	0.40	1.95	1.56	2.04	1.63
56	0.39	1.95	1.56	2.04	1.64
57	0.39	1.96	1.57	2.05	1.64
58	0.39	1.96	1.58	2.05	1.65
59	0.39	1.97	1.59	2.06	1.66
60	0.39	1.97	1.59	2.06	1.67
61	0.39	1.98	1.60	2.07	1.67
62	0.39	1.99	1.61	2.08	1.68
63	0.39	1.99	1.62	2.08	1.69
64	0.39	2.00	1.63	2.09	1.70
64	0.38	2.00	1.63	2.09	1.71
66	0.38	2.01	1.64	2.10	1.72
67	0.38	2.01	1.65	2.11	1.73
68	0.38	2.02	1.66	2.11	1.73
69	0.38	2.03	1.67	2.12	1.74
70	0.38	2.03	1.68	2.12	1.75

Feed Efficiency

Age (weeks)	Egg Mass (kg/day)	Intake 110g/day		Intake 115g/day	
		kg/kg	kg/Doz	kg/kg	kg/Doz
71	0.38	2.04	1.68	2.13	1.76
72	0.38	2.04	1.69	2.14	1.77
73	0.38	2.05	1.70	2.14	1.78
74	0.37	2.06	1.71	2.15	1.79
75	0.37	2.06	1.72	2.16	1.80
76	0.37	2.07	1.73	2.16	1.81
77	0.37	2.08	1.74	2.17	1.82
78	0.37	2.08	1.75	2.18	1.83
79	0.37	2.09	1.76	2.19	1.84
80	0.37	2.10	1.76	2.19	1.84

Lifetime Feed Efficiency

Age (weeks)	Feed Intake 110g/day		Feed Intake 115g/day	
	kg/kg Eggs	kg/Dozen Eggs	kg/kg Eggs	kg/Dozen Eggs
18-80	2.085	1.627	2.180	1.700

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