

PARENT STOCK
**Performance
Objectives**

June 2007



Introduction

This booklet contains the performance objectives for **Ross 708** Parent Stock.

Performance

Performance can be influenced by many factors including flock management, health status and climatic conditions. These objectives indicate the performance which can be achieved under good management and environmental conditions and when feeding recommended nutrient levels.

Poultry production is a global activity but across the world there are differing management strategies adapted to local economic conditions. The objectives are therefore presented in two sections, recognising two distinct strategies for breeder management which can be summarised as:

Section 1 To have 5% production at 25 weeks of age, with first light stimulation after 21 weeks (147 days +)

OR

Section 2 To have 5% production at 23 weeks of age, with first light stimulation before 21 weeks (up to 146 days of age)

The former is the most common strategy worldwide as it gives distinct advantages in early egg size, chick number and broiler chick quality. The performance objectives for this strategy are included in **Section 1** of this booklet. **Section 2** describes the strategy to achieve 5% production at 23 weeks of age.

Within the two major strategies variations may occur for a variety of other reasons. For example, feed consumption can be affected significantly by form of feed, energy level and house temperature. Information in this booklet should not, therefore, be regarded as a specification but as a 'Performance Objective'.

Performance levels given assume flocks are managed with separate sex feeding.

We recommend that you use the objectives which best relate to your production strategy.

All weight measurements are shown in both **metric (kg/g)** and **imperial (lb/oz)** to reflect the global nature of this publication.

In the tables values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

For further information on the management of Ross stock, please contact your local Technical Service Manager or the Technical Services Department.

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Section 1 To have 5% production at 25 weeks of age, with first light stimulation after 21 weeks (147 days +)

- 05 **Section 1** Performance Summary
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Performance Summary

Global Ross 708 breeder performance objectives for birds light stimulated **after** 21 weeks of age (147 days +)

Summary of 40 weeks of production

Age at depletion (days) (weeks)	448 64	448 64
Total Eggs (HHA)	172	172
Hatching Eggs (HHA)	166	166
Chicks/female housed at 175 days (25 weeks)	144	144
Hatchability %	86.6	86.6
Age at 5% Production (days) (weeks)	175 25	175 25
Peak Production %	83.8	83.8
Bodyweight at 175 days (25 weeks)	2690g	5.93lb
Bodyweight at depletion	3700-3800g	8.16-8.38lb
Mortality + culls % (rearing period)	4-5	4-5
Mortality % (laying period)	8	8
Feed/100 Chicks* day old-448 days (0-64 weeks)	36.4kg	80.25lb
Feed/100 Hatching Eggs* day old-448 days (0-64 weeks)	31.5kg	69.44lb

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTE

* Feed amounts expressed in the table do not include male feed allocations.

Male Bodyweight and Feeding Programme

Age (days)	Age (weeks)	Bodyweight (g)	Weekly increments (g)	Feed (g/bird/day)	Bodyweight (lb)	Weekly increments (lb)	Feed (lb/100/day)	Energy intake (kcal/bird/day) ¹
0	0			ad lib			ad lib	
7	1	150		26	0.33		5.7	73
14	2	310	160	36	0.68	0.35	7.9	101
21	3	505	195	44	1.11	0.43	9.7	123
28	4	720	215	54	1.59	0.48	11.9	151
35	5	900	180	61	1.98	0.39	13.4	171
42	6	1075	175	66	2.37	0.39	14.6	185
49	7	1215	140	67	2.68	0.31	14.8	188
56	8	1345	130	68	2.97	0.29	15.0	190
63	9	1465	120	70	3.23	0.26	15.4	196
70	10	1585	120	73	3.49	0.26	16.1	204
77	11	1705	120	75	3.76	0.27	16.5	210
84	12	1825	120	77	4.02	0.26	17.0	216
91	13	1945	120	79	4.29	0.27	17.4	221
98	14	2065	120	82	4.55	0.26	18.1	230
105	15	2185	120	84	4.82	0.27	18.5	235
112	16	2305	120	88	5.08	0.26	19.4	246
119	17	2435	130	93	5.37	0.29	20.5	260
126	18	2580	145	97	5.69	0.32	21.4	272
133	19	2730	150	101	6.02	0.33	22.3	283
140	20	2880	150	106	6.35	0.33	23.4	297
147	21	3030	150	111	6.68	0.33	24.5	311
154	22	3180	150	116	7.01	0.33	25.6	325
161	23	3330	150	120	7.34	0.33	26.5	336
168	24	3480	150	124	7.67	0.33	27.3	347
175	25	3620	140	127	7.98	0.31	28.0	356
182	26	3745	125	130	8.26	0.28	28.7	364
189	27	3815	70	132	8.41	0.15	29.1	370
196	28	3865	50	133	8.52	0.11	29.3	372
203	29	3895	30	133	8.59	0.07	29.3	372
210	30	3925	30	134	8.65	0.06	29.5	375
217	31	3955	30	134	8.72	0.07	29.5	375
224	32	3985	30	135	8.79	0.07	29.8	378
231	33	4015	30	135	8.85	0.06	29.8	378
238	34	4045	30	136	8.92	0.07	30.0	381
245	35	4075	30	136	8.98	0.06	30.0	381
252	36	4105	30	137	9.05	0.07	30.2	384
259	37	4135	30	137	9.12	0.07	30.2	384
266	38	4165	30	138	9.18	0.06	30.4	386
273	39	4195	30	138	9.25	0.07	30.4	386
280	40	4225	30	139	9.31	0.06	30.6	389
287	41	4255	30	139	9.38	0.07	30.6	389
294	42	4285	30	140	9.45	0.07	30.9	392
301	43	4315	30	140	9.51	0.06	30.9	392
308	44	4345	30	141	9.58	0.07	31.1	395
315	45	4375	30	141	9.65	0.07	31.1	395
322	46	4405	30	142	9.71	0.06	31.3	398
329	47	4435	30	142	9.78	0.07	31.3	398
336	48	4465	30	143	9.84	0.06	31.5	400
343	49	4495	30	143	9.91	0.07	31.5	400
350	50	4525	30	144	9.98	0.07	31.7	403
357	51	4555	30	144	10.04	0.06	31.7	403
364	52	4585	30	145	10.11	0.07	32.0	406
371	53	4615	30	145	10.17	0.06	32.0	406
378	54	4645	30	146	10.24	0.07	32.2	409
385	55	4675	30	146	10.31	0.07	32.2	409
392	56	4705	30	147	10.37	0.06	32.4	412
399	57	4735	30	147	10.44	0.07	32.4	412
406	58	4765	30	148	10.50	0.06	32.6	414
413	59	4795	30	148	10.57	0.07	32.6	414
420	60	4825	30	149	10.64	0.07	32.8	417
427	61	4855	30	149	10.70	0.06	32.8	417
434	62	4885	30	150	10.77	0.07	33.1	420
441	63	4915	30	150	10.84	0.07	33.1	420
448	64	4945	30	151	10.90	0.06	33.3	423

KEY
 (kg/g) – metric measurement
 (lb/oz) – imperial measurement

NOTES
 Weekly bodyweight gain beyond 30 weeks (210 days) should average approximately 30 grammes (0.06–0.07lb). This profile allows the male to reach sexual maturity by first eggs. Field performance has shown that this practice ensures that the body condition of the males is not compromised so they will maintain the best possible fertility levels.
 These quantities are a guide only; actual feed levels will depend on the energy value of individual rations. The feed allowance should increase throughout the lay period and never decrease.
 In the table values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

¹ Based on 2800 kcal ME/kg (1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

Female Bodyweight and Feeding Programme

Age (days)	Age (weeks)	Bodyweight (g)	Weekly increments (g)	Feed (g/bird/day)	Bodyweight (lb)	Weekly increments (lb)	Feed (lb/100/day)	Energy intake (kcal/bird/day) ¹
0	0			ad lib			ad lib	
7	1	110		25	0.24		5.5	70
14	2	215	105	29	0.47	0.23	6.4	81
21	3	310	95	32	0.68	0.21	7.1	90
28	4	400	90	37	0.88	0.20	8.2	104
35	5	490	90	40	1.08	0.20	8.8	112
42	6	580	90	42	1.28	0.20	9.3	118
49	7	670	90	43	1.48	0.20	9.5	120
56	8	760	90	44	1.68	0.20	9.7	123
63	9	850	90	46	1.87	0.19	10.1	129
70	10	940	90	47	2.07	0.20	10.4	132
77	11	1030	90	49	2.27	0.20	10.8	137
84	12	1120	90	50	2.47	0.20	11.0	140
91	13	1210	90	52	2.67	0.20	11.5	146
98	14	1300	90	54	2.87	0.20	11.9	151
105	15	1390	90	57	3.06	0.19	12.6	160
112	16	1480	90	61	3.26	0.20	13.4	171
119	17	1585	105	66	3.49	0.23	14.6	185
126	18	1700	115	71	3.75	0.26	15.7	199
133	19	1825	125	78	4.02	0.27	17.2	218
140	20	1960	135	86	4.32	0.30	19.0	241
147	21	2100	140	93	4.63	0.31	20.5	260
154	22	2245	145	101	4.95	0.32	22.3	283
161	23	2395	150	109	5.28	0.33	24.0	305
168	24	2545	150	116	5.61	0.33	25.6	325
175	25	2690	145	128	5.93	0.32	28.2	358
182	26	2825	135	138	6.23	0.30	30.4	386
189	27	2955	130	150	6.51	0.28	33.1	420
196	28	3055	100	158	6.74	0.23	34.8	442
203	29	3145	90	158	6.93	0.19	34.8	442
210	30	3230	85	158	7.12	0.19	34.8	442
217	31	3285	55	158	7.24	0.12	34.8	442
224	32	3330	45	158	7.34	0.10	34.8	442
231	33	3370	40	158	7.43	0.09	34.8	442
238	34	3400	30	158	7.50	0.07	34.8	442
245	35	3410	10	158	7.52	0.02	34.8	442
252	36	3425	15	157	7.55	0.03	34.6	440
259	37	3435	10	157	7.57	0.02	34.6	440
266	38	3450	15	156	7.61	0.04	34.4	437
273	39	3460	10	156	7.63	0.02	34.4	437
280	40	3475	15	155	7.66	0.03	34.2	434
287	41	3485	10	155	7.68	0.02	34.2	434
294	42	3500	15	154	7.72	0.04	34.0	431
301	43	3510	10	154	7.74	0.02	34.0	431
308	44	3525	15	153	7.77	0.03	33.7	428
315	45	3535	10	153	7.79	0.02	33.7	428
322	46	3550	15	152	7.83	0.04	33.5	426
329	47	3560	10	152	7.85	0.02	33.5	426
336	48	3575	15	151	7.88	0.03	33.3	423
343	49	3585	10	151	7.90	0.02	33.3	423
350	50	3600	15	150	7.94	0.04	33.1	420
357	51	3610	10	150	7.96	0.02	33.1	420
364	52	3625	15	149	7.99	0.03	32.8	417
371	53	3635	10	149	8.01	0.02	32.8	417
378	54	3650	15	148	8.05	0.04	32.6	414
385	55	3660	10	148	8.07	0.02	32.6	414
392	56	3675	15	147	8.10	0.03	32.4	412
399	57	3685	10	147	8.12	0.02	32.4	412
406	58	3700	15	146	8.16	0.04	32.2	409
413	59	3710	10	146	8.18	0.02	32.2	409
420	60	3725	15	145	8.21	0.03	32.0	406
427	61	3735	10	145	8.23	0.02	32.0	406
434	62	3750	15	144	8.27	0.04	31.7	403
441	63	3760	10	144	8.29	0.02	31.7	403
448	64	3775	15	143	8.32	0.03	31.5	400

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTES

Feed quantities are given as a guide. Birds should be fed the amount of feed they need to achieve the bodyweight target curve.

Weekly bodyweight gain beyond 33 weeks (231 days) should average approximately 15–20 grammes (0.03–0.04lb).

In the table values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

¹ Based on 2800 kcal ME/kg (1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

Weekly Egg Production

Week of production	Age (days)	Age (weeks)	Hen-housed (%)	Hen-week (%)	Eggs/bird/week	Eggs/bird/cum.	Hatching eggs/bird/week	Hatching eggs/bird/cum.
1	175	25	5.1	5.1	0.4	0.4		
2	182	26	20.5	20.6	1.4	1.8	1.0	1.0
3	189	27	49.1	49.4	3.4	5.2	3.0	4.0
4	196	28	69.0	69.6	4.8	10.0	4.5	8.5
5	203	29	77.4	78.2	5.4	15.4	5.1	13.6
6	210	30	81.8	82.8	5.7	21.1	5.5	19.1
7	217	31	83.8	85.0	5.9	27.0	5.7	24.8
8	224	32	82.9	84.2	5.8	32.8	5.7	30.5
9	231	33	81.5	83.0	5.7	38.5	5.6	36.1
10	238	34	80.3	81.9	5.6	44.1	5.5	41.6
11	245	35	78.9	80.7	5.5	49.6	5.4	47.0
12	252	36	77.7	79.6	5.4	55.0	5.3	52.3
13	259	37	76.4	78.4	5.3	60.3	5.2	57.5
14	266	38	75.1	77.3	5.3	65.6	5.2	62.7
15	273	39	73.8	76.0	5.2	70.8	5.1	67.8
16	280	40	72.5	74.9	5.1	75.9	5.0	72.8
17	287	41	71.2	73.7	5.0	80.9	4.9	77.7
18	294	42	70.0	72.6	4.9	85.8	4.8	82.5
19	301	43	68.7	71.4	4.8	90.6	4.7	87.2
20	308	44	67.5	70.3	4.7	95.3	4.6	91.8
21	315	45	66.2	69.1	4.6	99.9	4.5	96.3
22	322	46	64.9	67.9	4.5	104.4	4.5	100.8
23	329	47	63.6	66.7	4.5	108.9	4.4	105.2
24	336	48	62.5	65.6	4.4	113.3	4.3	109.5
25	343	49	61.2	64.4	4.3	117.6	4.2	113.7
26	350	50	59.9	63.2	4.2	121.8	4.1	117.8
27	357	51	58.7	62.1	4.1	125.9	4.0	121.8
28	364	52	57.5	60.9	4.0	129.9	3.9	125.7
29	371	53	56.2	59.7	3.9	133.8	3.9	129.6
30	378	54	55.0	58.5	3.8	137.6	3.8	133.4
31	385	55	53.8	57.3	3.8	141.4	3.7	137.1
32	392	56	52.6	56.2	3.7	145.1	3.6	140.7
33	399	57	51.4	55.0	3.6	148.7	3.5	144.2
34	406	58	50.1	53.8	3.5	152.2	3.4	147.6
35	413	59	48.9	52.6	3.4	155.6	3.3	150.9
36	420	60	47.8	51.5	3.3	158.9	3.2	154.1
37	427	61	46.6	50.3	3.3	162.2	3.1	157.2
38	434	62	45.3	49.1	3.2	165.4	3.1	160.3
39	441	63	44.2	47.9	3.1	168.5	3.0	163.3
40	448	64	43.1	46.8	3.0	171.5	2.9	166.2

Weekly Egg Weight and Egg Mass

Week of production	Age (days)	Age (weeks)	Hen-week (%)	Egg weight (g)	Egg mass*	Egg weight (oz/dozen)
1	175	25	5.1	49.4	2.5	20.7
2	182	26	20.6	51.2	10.5	21.5
3	189	27	49.4	52.8	26.1	22.2
4	196	28	69.6	54.6	38.0	22.9
5	203	29	78.2	55.7	43.6	23.4
6	210	30	82.8	57.0	47.2	23.9
7	217	31	85.0	58.1	49.4	24.4
8	224	32	84.2	58.9	49.6	24.7
9	231	33	83.0	59.7	49.6	25.1
10	238	34	81.9	60.4	49.5	25.4
11	245	35	80.7	60.9	49.1	25.6
12	252	36	79.6	61.4	48.9	25.8
13	259	37	78.4	61.9	48.5	26.0
14	266	38	77.3	62.3	48.2	26.2
15	273	39	76.0	62.7	47.7	26.3
16	280	40	74.9	63.0	47.2	26.5
17	287	41	73.7	63.4	46.7	26.6
18	294	42	72.6	63.7	46.2	26.8
19	301	43	71.4	64.1	45.8	26.9
20	308	44	70.3	64.4	45.3	27.0
21	315	45	69.1	64.8	44.8	27.2
22	322	46	67.9	65.1	44.2	27.3
23	329	47	66.7	65.4	43.6	27.5
24	336	48	65.6	65.8	43.2	27.6
25	343	49	64.4	66.1	42.6	27.8
26	350	50	63.2	66.5	42.0	27.9
27	357	51	62.1	66.8	41.5	28.1
28	364	52	60.9	67.2	40.9	28.2
29	371	53	59.7	67.5	40.3	28.4
30	378	54	58.5	67.8	39.7	28.5
31	385	55	57.3	68.1	39.0	28.6
32	392	56	56.2	68.4	38.4	28.7
33	399	57	55.0	68.7	37.8	28.9
34	406	58	53.8	68.9	37.1	28.9
35	413	59	52.6	69.1	36.3	29.0
36	420	60	51.5	69.3	35.7	29.1
37	427	61	50.3	69.4	34.9	29.1
38	434	62	49.1	69.5	34.1	29.2
39	441	63	47.9	69.6	33.3	29.2
40	448	64	46.8	69.7	32.6	29.3

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTE

* Egg mass = (Hen-week (%) x Egg weight (g)) / 100

Weekly Hatchability and Chick Production

Week of production	Age (days)	Age (weeks)	Hatch all eggs (%)	Cum. hatchability (%)	Chicks/week hen-housed	Cum. chicks hen-housed
1	175	25				
2	182	26	78.7	78.7	0.8	0.8
3	189	27	80.7	80.2	2.4	3.2
4	196	28	83.3	81.8	3.7	6.9
5	203	29	85.6	83.2	4.4	11.3
6	210	30	87.5	84.4	4.8	16.1
7	217	31	89.1	85.5	5.1	21.2
8	224	32	90.3	86.4	5.1	26.3
9	231	33	90.9	87.1	5.1	31.4
10	238	34	91.1	87.6	5.0	36.4
11	245	35	91.2	88.0	4.9	41.3
12	252	36	91.3	88.4	4.8	46.1
13	259	37	91.2	88.6	4.7	50.8
14	266	38	91.2	88.8	4.7	55.5
15	273	39	91.2	89.0	4.7	60.2
16	280	40	91.0	89.1	4.6	64.8
17	287	41	90.8	89.2	4.4	69.2
18	294	42	90.6	89.3	4.3	73.5
19	301	43	90.3	89.4	4.2	77.7
20	308	44	89.9	89.4	4.1	81.8
21	315	45	89.3	89.4	4.0	85.8
22	322	46	88.7	89.4	4.0	89.8
23	329	47	88.2	89.3	3.9	93.7
24	336	48	87.6	89.3	3.8	97.5
25	343	49	87.0	89.2	3.7	101.2
26	350	50	86.3	89.1	3.5	104.7
27	357	51	85.7	89.0	3.4	108.1
28	364	52	85.0	88.8	3.3	111.4
29	371	53	84.2	88.7	3.3	114.7
30	378	54	83.5	88.6	3.2	117.9
31	385	55	82.7	88.4	3.1	121.0
32	392	56	81.8	88.2	2.9	123.9
33	399	57	80.8	88.0	2.8	126.7
34	406	58	79.9	87.9	2.7	129.4
35	413	59	79.0	87.7	2.6	132.0
36	420	60	78.0	87.5	2.5	134.5
37	427	61	77.1	87.3	2.4	136.9
38	434	62	76.1	87.0	2.4	139.3
39	441	63	74.8	86.8	2.2	141.5
40	448	64	73.6	86.6	2.1	143.6

Section 2 To have 5% production at 23 weeks of age, with first light stimulation before 21 weeks (up to 146 days of age)

- 13 **Section 2** Performance Summary
- 14 **Section 2** Male Bodyweight and Feeding Programme
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Performance Summary

Global Ross 708 breeder performance objectives for birds light stimulated **before** 21 weeks of age (up to 146 days of age)

Summary of 40 weeks of production

Age at depletion (days) (weeks)	434 62	434 62
Total Eggs (HHA)	172	172
Hatching Eggs (HHA)	165	165
Chicks/female housed at 161 days (23 weeks)	143	143
Hatchability %	86.5	86.5
Age at 5% Production (days) (weeks)	161 23	161 23
Peak Production %	83.8	83.8
Bodyweight at 161 days (23 weeks)	2580g	5.69lb
Bodyweight at depletion	3700-3800g	8.16-8.38lb
Mortality + culls % (rearing period)	4-5	4-5
Mortality % (laying period)	8	8
Feed/100 Chicks* day old-434 days (0-62 weeks)	36.0kg	79.37lb
Feed/100 Hatching Eggs* day old-434 days (0-62 weeks)	31.2kg	68.78lb

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTE

* Feed amounts expressed in the table do not include male feed allocations.

Male Bodyweight and Feeding Programme

Age (days)	Age (weeks)	Bodyweight (g)	Weekly increments (g)	Feed (g/bird/day)	Bodyweight (lb)	Weekly increments (lb)	Feed (lb/100/day)	Energy intake (kcal/bird/day) ¹
0	0			ad lib			ad lib	
7	1	150		26	0.33		5.7	73
14	2	310	160	36	0.68	0.35	7.9	101
21	3	505	195	44	1.11	0.43	9.7	123
28	4	720	215	54	1.59	0.48	11.9	151
35	5	900	180	61	1.98	0.39	13.4	171
42	6	1075	175	66	2.37	0.39	14.6	172
49	7	1230	155	67	2.71	0.34	14.8	174
56	8	1375	145	70	3.03	0.32	15.4	182
63	9	1510	135	72	3.33	0.30	15.9	187
70	10	1640	130	75	3.62	0.29	16.5	195
77	11	1770	130	77	3.90	0.28	17.0	200
84	12	1900	130	79	4.19	0.29	17.4	205
91	13	2030	130	81	4.48	0.29	17.9	211
98	14	2160	130	84	4.76	0.28	18.5	218
105	15	2290	130	86	5.05	0.29	19.0	241
112	16	2430	140	95	5.36	0.31	20.9	266
119	17	2575	145	98	5.68	0.32	21.6	274
126	18	2725	150	101	6.01	0.33	22.3	283
133	19	2880	155	106	6.35	0.34	23.4	297
140	20	3035	155	113	6.69	0.34	24.9	316
147	21	3195	160	120	7.04	0.35	26.5	336
154	22	3345	150	126	7.37	0.33	27.8	353
161	23	3490	145	130	7.69	0.32	28.7	364
168	24	3630	140	132	8.00	0.31	29.1	370
175	25	3750	120	133	8.27	0.27	29.3	372
182	26	3860	110	133	8.51	0.24	29.3	372
189	27	3920	60	134	8.64	0.13	29.5	375
196	28	3970	50	134	8.75	0.11	29.5	375
203	29	4010	40	135	8.84	0.09	29.8	378
210	30	4040	30	135	8.91	0.07	29.8	378
217	31	4070	30	136	8.97	0.06	30.0	381
224	32	4100	30	136	9.04	0.07	30.0	381
231	33	4130	30	137	9.10	0.06	30.2	384
238	34	4160	30	137	9.17	0.07	30.2	384
245	35	4190	30	138	9.24	0.07	30.4	386
252	36	4220	30	138	9.30	0.06	30.4	386
259	37	4250	30	139	9.37	0.07	30.6	389
266	38	4280	30	139	9.44	0.07	30.6	389
273	39	4310	30	140	9.50	0.06	30.9	392
280	40	4340	30	140	9.57	0.07	30.9	392
287	41	4370	30	141	9.63	0.06	31.1	395
294	42	4400	30	141	9.70	0.07	31.1	395
301	43	4430	30	142	9.77	0.07	31.3	398
308	44	4460	30	142	9.83	0.06	31.3	398
315	45	4490	30	143	9.90	0.07	31.5	400
322	46	4520	30	143	9.96	0.06	31.5	400
329	47	4550	30	144	10.03	0.07	31.7	403
336	48	4580	30	144	10.10	0.07	31.7	403
343	49	4610	30	145	10.16	0.06	32.0	406
350	50	4640	30	145	10.23	0.07	32.0	406
357	51	4670	30	146	10.30	0.07	32.2	409
364	52	4700	30	146	10.36	0.06	32.2	409
371	53	4730	30	147	10.43	0.07	32.4	412
378	54	4760	30	147	10.49	0.06	32.4	412
385	55	4790	30	148	10.56	0.07	32.6	414
392	56	4820	30	148	10.63	0.07	32.6	414
399	57	4850	30	149	10.69	0.06	32.8	417
406	58	4880	30	149	10.76	0.07	32.8	417
413	59	4910	30	150	10.82	0.06	33.1	420
420	60	4940	30	150	10.89	0.07	33.1	420
427	61	4970	30	151	10.96	0.07	33.3	423
434	62	5000	30	151	11.02	0.06	33.3	423

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTES

Weekly bodyweight gain beyond 30 weeks (210 days) should average approximately 30 grammes (0.06–0.07lb). This profile allows the male to reach sexual maturity by first eggs. Field performance has shown that this practice ensures that the body condition of the males is not compromised so they will maintain the best possible fertility levels.

These quantities are a guide only; actual feed levels will depend on the energy value of individual rations. The feed allowance should increase throughout the lay period and never decrease.

In the table values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

¹ Based on 2800 kcal ME/kg (1270 kcal ME/lb) and 2600 kcal ME/kg (1179 kcal ME/lb) between 42 and 104 days of age. Adjustments must be made to reflect feeding differing energy levels.

Female Bodyweight and Feeding Programme

Age (days)	Age (weeks)	Bodyweight (g)	Weekly increments (g)	Feed (g/bird/day)	Bodyweight (lb)	Weekly increments (lb)	Feed (lb/100/day)	Energy intake (kcal/bird/day) ¹
0	0			ad lib			ad lib	
7	1	120		25	0.26		5.5	70
14	2	235	115	30	0.52	0.26	6.6	84
21	3	340	105	34	0.75	0.23	7.5	95
28	4	440	100	38	0.97	0.22	8.4	106
35	5	535	95	41	1.18	0.21	9.0	115
42	6	630	95	45	1.39	0.21	9.9	117
49	7	725	95	48	1.60	0.21	10.6	125
56	8	820	95	49	1.81	0.21	10.8	127
63	9	915	95	51	2.02	0.21	11.2	133
70	10	1010	95	52	2.23	0.21	11.5	135
77	11	1105	95	54	2.44	0.21	11.9	140
84	12	1200	95	55	2.65	0.21	12.1	143
91	13	1295	95	57	2.85	0.20	12.6	148
98	14	1390	95	58	3.06	0.21	12.8	151
105	15	1485	95	60	3.27	0.21	13.2	168
112	16	1595	110	63	3.52	0.25	13.9	176
119	17	1715	120	68	3.78	0.26	15.0	190
126	18	1850	135	74	4.08	0.30	16.3	207
133	19	1990	140	80	4.39	0.31	17.6	224
140	20	2135	145	88	4.71	0.32	19.4	246
147	21	2285	150	96	5.04	0.33	21.2	269
154	22	2435	150	104	5.37	0.33	22.9	291
161	23	2580	145	112	5.69	0.32	24.7	314
168	24	2715	135	128	5.99	0.30	28.2	358
175	25	2840	125	144	6.26	0.27	31.7	403
182	26	2960	120	160	6.53	0.27	35.3	448
189	27	3060	100	160	6.75	0.22	35.3	448
196	28	3150	90	160	6.94	0.19	35.3	448
203	29	3235	85	160	7.13	0.19	35.3	448
210	30	3290	55	160	7.25	0.12	35.3	448
217	31	3335	45	160	7.35	0.10	35.3	448
224	32	3375	40	160	7.44	0.09	35.3	448
231	33	3410	35	160	7.52	0.08	35.3	448
238	34	3430	20	160	7.56	0.04	35.3	448
245	35	3445	15	159	7.59	0.03	35.1	445
252	36	3460	15	159	7.63	0.04	35.1	445
259	37	3470	10	158	7.65	0.02	34.8	442
266	38	3485	15	158	7.68	0.03	34.8	442
273	39	3495	10	157	7.71	0.03	34.6	440
280	40	3510	15	157	7.74	0.03	34.6	440
287	41	3520	10	156	7.76	0.02	34.4	437
294	42	3535	15	155	7.79	0.03	34.2	434
301	43	3545	10	155	7.82	0.03	34.2	434
308	44	3560	15	154	7.85	0.03	34.0	431
315	45	3570	10	154	7.87	0.02	34.0	431
322	46	3585	15	153	7.90	0.03	33.7	428
329	47	3595	10	153	7.93	0.03	33.7	428
336	48	3610	15	152	7.96	0.03	33.5	426
343	49	3620	10	151	7.98	0.02	33.3	423
350	50	3635	15	151	8.01	0.03	33.3	423
357	51	3645	10	150	8.04	0.03	33.1	420
364	52	3660	15	150	8.07	0.03	33.1	420
371	53	3670	10	149	8.09	0.02	32.8	417
378	54	3685	15	149	8.12	0.03	32.8	417
385	55	3695	10	148	8.15	0.03	32.6	414
392	56	3710	15	147	8.18	0.03	32.4	412
399	57	3720	10	147	8.20	0.02	32.4	412
406	58	3735	15	146	8.23	0.03	32.2	409
413	59	3745	10	146	8.26	0.03	32.2	409
420	60	3760	15	145	8.29	0.03	32.0	406
427	61	3770	10	145	8.31	0.02	32.0	406
434	62	3785	15	144	8.34	0.03	31.7	403

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTES

Feed quantities are given as a guide. Birds should be fed the amount of feed they need to achieve the bodyweight target curve.

Weekly bodyweight gain beyond 33 weeks (231 days) should average approximately 15–20 grammes (0.03–0.04lb).

In the table values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

¹ Based on 2800 kcal ME/kg (1270 kcal ME/lb) and 2600 kcal ME/kg (1179 kcal ME/lb) between 42 and 104 days of age. Adjustments must be made to reflect feeding differing energy levels.

Weekly Egg Production

Week of production	Age (days)	Age (weeks)	Hen-housed (%)	Hen-week (%)	Eggs/bird/week	Eggs/bird/cum.	Hatching eggs/bird/week	Hatching eggs/bird/cum.
1	161	23	5.1	5.1	0.4	0.4		
2	168	24	20.5	20.6	1.4	1.8	0.9	0.9
3	175	25	49.1	49.3	3.4	5.2	2.6	3.5
4	182	26	69.0	69.4	4.8	10.0	4.3	7.8
5	189	27	77.4	78.1	5.4	15.4	5.0	12.8
6	196	28	81.8	82.6	5.7	21.1	5.4	18.2
7	203	29	83.8	84.8	5.9	27.0	5.6	23.8
8	210	30	82.9	84.0	5.8	32.8	5.6	29.4
9	217	31	81.5	82.9	5.7	38.5	5.5	34.9
10	224	32	80.3	81.8	5.6	44.1	5.5	40.4
11	231	33	78.9	80.5	5.5	49.6	5.4	45.8
12	238	34	77.7	79.4	5.4	55.0	5.3	51.1
13	245	35	76.4	78.3	5.3	60.3	5.2	56.3
14	252	36	75.1	77.1	5.3	65.6	5.2	61.5
15	259	37	73.8	75.9	5.2	70.8	5.1	66.6
16	266	38	72.5	74.8	5.1	75.9	5.0	71.6
17	273	39	71.2	73.6	5.0	80.9	4.9	76.5
18	280	40	70.0	72.5	4.9	85.8	4.8	81.3
19	287	41	68.7	71.2	4.8	90.6	4.7	86.0
20	294	42	67.5	70.1	4.7	95.3	4.6	90.6
21	301	43	66.2	68.9	4.6	99.9	4.6	95.2
22	308	44	64.9	67.8	4.5	104.4	4.5	99.7
23	315	45	63.6	66.6	4.5	108.9	4.4	104.1
24	322	46	62.5	65.5	4.4	113.3	4.3	108.4
25	329	47	61.2	64.3	4.3	117.6	4.2	112.6
26	336	48	59.9	63.1	4.2	121.8	4.1	116.7
27	343	49	58.7	61.9	4.1	125.9	4.0	120.7
28	350	50	57.5	60.8	4.0	129.9	3.9	124.6
29	357	51	56.2	59.6	3.9	133.8	3.9	128.5
30	364	52	55.0	58.4	3.8	137.6	3.8	132.3
31	371	53	53.8	57.2	3.8	141.4	3.7	136.0
32	378	54	52.6	56.1	3.7	145.1	3.6	139.6
33	385	55	51.4	54.9	3.6	148.7	3.5	143.1
34	392	56	50.1	53.7	3.5	152.2	3.4	146.5
35	399	57	48.9	52.5	3.4	155.6	3.3	149.8
36	406	58	47.8	51.4	3.3	158.9	3.3	153.1
37	413	59	46.6	50.2	3.3	162.2	3.2	156.3
38	420	60	45.3	49.0	3.2	165.4	3.1	159.4
39	427	61	44.2	47.8	3.1	168.5	3.0	162.4
40	434	62	43.1	46.7	3.0	171.5	2.9	165.3

Weekly Egg Weight and Egg Mass

Week of production	Age (days)	Age (weeks)	Hen-week (%)	Egg weight (g)	Egg mass*	Egg weight (oz/dozen)
1	161	23	5.1	47.8	2.4	20.1
2	168	24	20.6	49.7	10.2	20.9
3	175	25	49.3	51.2	25.2	21.5
4	182	26	69.4	52.6	36.5	22.1
5	189	27	78.1	53.9	42.1	22.6
6	196	28	82.6	55.1	45.5	23.1
7	203	29	84.8	56.1	47.6	23.6
8	210	30	84.0	57.2	48.0	24.0
9	217	31	82.9	58.1	48.2	24.4
10	224	32	81.8	58.9	48.2	24.7
11	231	33	80.5	59.7	48.1	25.1
12	238	34	79.4	60.4	48.0	25.4
13	245	35	78.3	60.9	47.7	25.6
14	252	36	77.1	61.4	47.3	25.8
15	259	37	75.9	61.9	47.0	26.0
16	266	38	74.8	62.3	46.6	26.2
17	273	39	73.6	62.7	46.1	26.3
18	280	40	72.5	63.0	45.7	26.5
19	287	41	71.2	63.4	45.1	26.6
20	294	42	70.1	63.7	44.7	26.8
21	301	43	68.9	64.1	44.2	26.9
22	308	44	67.8	64.4	43.7	27.0
23	315	45	66.6	64.8	43.2	27.2
24	322	46	65.5	65.1	42.6	27.3
25	329	47	64.3	65.4	42.1	27.5
26	336	48	63.1	65.8	41.5	27.6
27	343	49	61.9	66.1	40.9	27.8
28	350	50	60.8	66.5	40.4	27.9
29	357	51	59.6	66.8	39.8	28.1
30	364	52	58.4	67.2	39.2	28.2
31	371	53	57.2	67.5	38.6	28.4
32	378	54	56.1	67.8	38.0	28.5
33	385	55	54.9	68.1	37.4	28.6
34	392	56	53.7	68.4	36.7	28.7
35	399	57	52.5	68.7	36.1	28.9
36	406	58	51.4	68.9	35.4	28.9
37	413	59	50.2	69.1	34.7	29.0
38	420	60	49.0	69.3	34.0	29.1
39	427	61	47.8	69.4	33.2	29.1
40	434	62	46.7	69.5	32.5	29.2

KEY

- (kg/g) – metric measurement
- (lb/oz) – imperial measurement

NOTE

* Egg mass = (Hen-week (%) x Egg weight (g)) / 100

Weekly Hatchability and Chick Production

Week of production	Age (days)	Age (weeks)	Hatch all eggs (%)	Cum. hatchability (%)	Chicks/week hen-housed	Cum. chicks hen-housed
1	161	23				
2	168	24	70.8	70.8	0.6	0.6
3	175	25	77.1	75.5	2.0	2.6
4	182	26	80.2	78.1	3.4	6.0
5	189	27	82.9	79.9	4.1	10.1
6	196	28	85.3	81.5	4.6	14.7
7	203	29	87.2	82.9	4.9	19.6
8	210	30	88.8	84.0	5.0	24.6
9	217	31	90.0	84.9	5.0	29.6
10	224	32	90.6	85.7	5.0	34.6
11	231	33	90.8	86.3	4.9	39.5
12	238	34	90.9	86.8	4.8	44.3
13	245	35	91.0	87.2	4.7	49.0
14	252	36	90.9	87.5	4.7	53.7
15	259	37	90.9	87.7	4.6	58.3
16	266	38	90.8	88.0	4.5	62.8
17	273	39	90.7	88.1	4.4	67.2
18	280	40	90.4	88.3	4.3	71.5
19	287	41	90.2	88.4	4.2	75.7
20	294	42	89.9	88.5	4.1	79.8
21	301	43	89.6	88.5	4.1	83.9
22	308	44	89.3	88.5	4.0	87.9
23	315	45	88.8	88.6	3.9	91.8
24	322	46	88.3	88.5	3.8	95.6
25	329	47	87.8	88.5	3.7	99.3
26	336	48	87.2	88.5	3.6	102.9
27	343	49	86.6	88.4	3.5	106.4
28	350	50	85.9	88.3	3.4	109.8
29	357	51	85.3	88.2	3.3	113.1
30	364	52	84.6	88.1	3.2	116.3
31	371	53	83.8	88.0	3.1	119.4
32	378	54	83.0	87.9	3.0	122.4
33	385	55	82.3	87.8	2.9	125.3
34	392	56	81.3	87.6	2.8	128.1
35	399	57	80.4	87.4	2.7	130.8
36	406	58	79.5	87.3	2.6	133.4
37	413	59	78.6	87.1	2.5	135.9
38	420	60	77.5	86.9	2.4	138.3
39	427	61	76.6	86.7	2.3	140.6
40	434	62	75.5	86.5	2.2	142.8



Every attempt has been made to ensure the accuracy and relevance of the information presented. However, Aviagen accepts no liability for the consequences of using the information for the management of chickens.

For further information on the management of Ross stock, please contact your local Technical Service Manager or the Technical Services Department.

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