

**PARENT STOCK**  
**Performance**  
**Objectives**

June 2007



## Introduction

This booklet contains the performance objectives for **Ross 308** Parent Stock and is to be used with the **Ross 308** Parent Stock Management Manual.

## 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.

## Contents

- 05 **Section 1** Performance Summary
- 06 **Section 1** Male Bodyweight and Feeding Programme
- 07 **Section 1** Female Bodyweight and Feeding Programme
- 08 **Section 1** Female Out of Season Bodyweight and Feeding Programme
- 09 **Section 1** Weekly Egg Production
- 10 **Section 1** Weekly Egg Weight and Egg Mass
- 11 **Section 1** Weekly Hatchability and Chick Production
  
- 13 **Section 2** Performance Summary
- 14 **Section 2** Male Bodyweight and Feeding Programme
- 15 **Section 2** Female Bodyweight and Feeding Programme
- 16 **Section 2** Weekly Egg Production
- 17 **Section 2** Weekly Egg Weight and Egg Mass
- 18 **Section 2** Weekly Hatchability and Chick Production

**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
- 06 **Section 1** Male Bodyweight and Feeding Programme
- 07 **Section 1** Female Bodyweight and Feeding Programme
- 08 **Section 1** Female Out of Season Bodyweight and Feeding Programme
- 09 **Section 1** Weekly Egg Production
- 10 **Section 1** Weekly Egg Weight and Egg Mass
- 11 **Section 1** Weekly Hatchability and Chick Production

### Performance Summary

Global Ross 308 breeder performance objectives for birds light stimulated **after** 21 weeks of age (147 days +)

#### Summary of 40 weeks of production

<b>Age at depletion</b> (days) (weeks)	448 64	448 64
<b>Total Eggs</b> (HHA)	180	180
<b>Hatching Eggs</b> (HHA)	175	175
<b>Chicks/female housed at 175 days</b> (25 weeks)	148	148
<b>Hatchability %</b>	84.8	84.8
<b>Age at 5% Production</b> (days) (weeks)	175 25	175 25
<b>Peak Production %</b>	85.3	85.3
<b>Bodyweight at 175 days</b> (25 weeks)	2975g	6.56lb
<b>Bodyweight at depletion</b>	3950–4050g	8.71–8.93lb
<b>Mortality + culls %</b> (rearing period)	4–5	4–5
<b>Mortality %</b> (laying period)	8	8
<b>Feed/100 Chicks*</b> day old–448 days (0–64 weeks)	37.4kg	82.45lb
<b>Feed/100 Hatching Eggs*</b> day old–448 days (0–64 weeks)	31.7kg	69.89lb

**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) <sup>1</sup>
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.

<sup>1</sup> 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) <sup>1</sup>
0	0			ad lib			ad lib	
7	1	115		25	0.25		5.5	70
14	2	215	100	29	0.47	0.22	6.4	81
21	3	335	120	33	0.74	0.27	7.3	92
28	4	450	115	39	0.99	0.25	8.6	109
35	5	560	110	44	1.23	0.24	9.7	123
42	6	660	100	46	1.46	0.23	10.1	129
49	7	760	100	48	1.68	0.22	10.6	134
56	8	860	100	50	1.90	0.22	11.0	140
63	9	960	100	52	2.12	0.22	11.5	146
70	10	1060	100	54	2.34	0.22	11.9	151
77	11	1160	100	56	2.56	0.22	12.3	157
84	12	1260	100	58	2.78	0.22	12.8	162
91	13	1360	100	60	3.00	0.22	13.2	168
98	14	1460	100	62	3.22	0.22	13.7	174
105	15	1560	100	65	3.44	0.22	14.3	182
112	16	1670	110	70	3.68	0.24	15.4	196
119	17	1790	120	75	3.95	0.27	16.5	210
126	18	1915	125	81	4.22	0.27	17.9	227
133	19	2050	135	88	4.52	0.30	19.4	246
140	20	2195	145	96	4.84	0.32	21.2	269
147	21	2345	150	104	5.17	0.33	22.9	291
154	22	2500	155	113	5.51	0.34	24.9	316
161	23	2660	160	121	5.86	0.35	26.7	339
168	24	2820	160	130	6.22	0.36	28.7	364
175	25	2975	155	139	6.56	0.34	30.6	389
182	26	3120	145	147	6.88	0.32	32.4	412
189	27	3245	125	156	7.15	0.27	34.4	437
196	28	3340	95	165	7.36	0.21	36.4	462
203	29	3395	55	165	7.48	0.12	36.4	462
210	30	3435	40	165	7.57	0.09	36.4	462
217	31	3465	30	165	7.64	0.07	36.4	462
224	32	3490	25	165	7.69	0.05	36.4	462
231	33	3510	20	165	7.74	0.05	36.4	462
238	34	3525	15	165	7.77	0.03	36.4	462
245	35	3540	15	165	7.80	0.03	36.4	462
252	36	3555	15	164	7.84	0.04	36.2	459
259	37	3570	15	164	7.87	0.03	36.2	459
266	38	3585	15	163	7.90	0.03	35.9	456
273	39	3600	15	163	7.94	0.04	35.9	456
280	40	3615	15	162	7.97	0.03	35.7	454
287	41	3630	15	162	8.00	0.03	35.7	454
294	42	3645	15	161	8.04	0.04	35.5	451
301	43	3660	15	160	8.07	0.03	35.3	448
308	44	3675	15	160	8.10	0.03	35.3	448
315	45	3690	15	159	8.13	0.03	35.1	445
322	46	3705	15	159	8.17	0.04	35.1	445
329	47	3720	15	158	8.20	0.03	34.8	442
336	48	3735	15	158	8.23	0.03	34.8	442
343	49	3750	15	157	8.27	0.04	34.6	440
350	50	3765	15	156	8.30	0.03	34.4	437
357	51	3780	15	156	8.33	0.03	34.4	437
364	52	3795	15	155	8.37	0.04	34.2	434
371	53	3810	15	155	8.40	0.03	34.2	434
378	54	3825	15	154	8.43	0.03	34.0	431
385	55	3840	15	154	8.47	0.04	34.0	431
392	56	3855	15	153	8.50	0.03	33.7	428
399	57	3870	15	152	8.53	0.03	33.5	426
406	58	3885	15	152	8.56	0.03	33.5	426
413	59	3900	15	151	8.60	0.04	33.3	423
420	60	3915	15	151	8.63	0.03	33.3	423
427	61	3930	15	150	8.66	0.03	33.1	420
434	62	3945	15	150	8.70	0.04	33.1	420
441	63	3960	15	149	8.73	0.03	32.8	417
448	64	3975	15	148	8.76	0.03	32.6	414

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

Female Out of Season 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) <sup>1</sup>
0	0			ad lib			ad lib	
7	1	115		25	0.25		5.5	70
14	2	215	100	27	0.47	0.22	6.0	76
21	3	330	115	32	0.73	0.26	7.1	90
28	4	450	120	38	0.99	0.26	8.4	106
35	5	560	110	43	1.23	0.24	9.5	120
42	6	660	100	48	1.46	0.23	10.6	134
49	7	760	100	52	1.68	0.22	11.5	146
56	8	870	110	56	1.92	0.24	12.3	157
63	9	980	110	58	2.16	0.24	12.8	162
70	10	1090	110	61	2.40	0.24	13.4	171
77	11	1200	110	63	2.65	0.25	13.9	176
84	12	1300	100	64	2.87	0.22	14.1	179
91	13	1400	100	66	3.09	0.22	14.6	185
98	14	1500	100	67	3.31	0.22	14.8	188
105	15	1610	110	69	3.55	0.24	15.2	193
112	16	1740	130	76	3.84	0.29	16.8	213
119	17	1880	140	82	4.14	0.30	18.1	230
126	18	2020	140	88	4.45	0.31	19.4	246
133	19	2160	140	102	4.76	0.31	22.5	286
140	20	2300	140	109	5.07	0.31	24.0	305
147	21	2460	160	118	5.42	0.35	26.0	330
154	22	2640	180	129	5.82	0.40	28.4	361
161	23	2800	160	134	6.17	0.35	29.5	375
168	24	2950	150	139	6.50	0.33	30.6	389
175	25	3090	140	144	6.81	0.31	31.7	403
182	26	3220	130	152	7.10	0.29	33.5	426
189	27	3330	110	160	7.34	0.24	35.3	448
196	28	3420	90	170	7.54	0.20	37.5	476
203	29	3490	70	170	7.69	0.15	37.5	476
210	30	3540	50	170	7.80	0.11	37.5	476
217	31	3580	40	170	7.89	0.09	37.5	476
224	32	3610	30	170	7.96	0.07	37.5	476
231	33	3630	20	170	8.00	0.04	37.5	476
238	34	3645	15	168	8.04	0.04	37.0	470
245	35	3660	15	167	8.07	0.03	36.8	468
252	36	3675	15	166	8.10	0.03	36.6	465
259	37	3690	15	166	8.13	0.03	36.6	465
266	38	3705	15	165	8.17	0.04	36.4	462
273	39	3720	15	164	8.20	0.03	36.2	459
280	40	3735	15	163	8.23	0.03	35.9	456
287	41	3750	15	162	8.27	0.04	35.7	454
294	42	3765	15	162	8.30	0.03	35.7	454
301	43	3780	15	161	8.33	0.03	35.5	451
308	44	3795	15	160	8.37	0.04	35.3	448
315	45	3810	15	159	8.40	0.03	35.1	445
322	46	3825	15	158	8.43	0.03	34.8	442
329	47	3840	15	158	8.47	0.04	34.8	442
336	48	3855	15	157	8.50	0.03	34.6	440
343	49	3870	15	156	8.53	0.03	34.4	437
350	50	3885	15	155	8.56	0.03	34.2	434
357	51	3900	15	154	8.60	0.04	34.0	431
364	52	3915	15	154	8.63	0.03	34.0	431
371	53	3930	15	153	8.66	0.03	33.7	428
378	54	3945	15	152	8.70	0.04	33.5	426
385	55	3960	15	151	8.73	0.03	33.3	423
392	56	3975	15	150	8.76	0.03	33.1	420
399	57	3990	15	150	8.80	0.04	33.1	420
406	58	4005	15	149	8.83	0.03	32.8	417
413	59	4020	15	148	8.86	0.03	32.6	414
420	60	4035	15	147	8.90	0.04	32.4	412
427	61	4050	15	146	8.93	0.03	32.2	409
434	62	4065	15	146	8.96	0.03	32.2	409
441	63	4080	15	145	8.99	0.03	32.0	406
448	64	4095	15	144	9.03	0.04	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.  
<sup>1</sup> 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	5.4	5.4	0.4	0.4		
2	182	26	21.5	21.6	1.5	1.9	1.1	1.1
3	189	27	51.3	51.7	3.6	5.5	3.2	4.3
4	196	28	72.3	72.9	5.1	10.6	4.7	9.0
5	203	29	81.1	81.9	5.7	16.3	5.4	14.4
6	210	30	84.7	85.7	5.9	22.2	5.7	20.1
7	217	31	85.3	86.5	6.0	28.2	5.8	25.9
8	224	32	84.4	85.8	5.9	34.1	5.8	31.7
9	231	33	83.2	84.8	5.8	39.9	5.7	37.4
10	238	34	82.0	83.7	5.7	45.6	5.6	43.0
11	245	35	80.8	82.6	5.7	51.3	5.6	48.6
12	252	36	79.6	81.6	5.6	56.9	5.5	54.1
13	259	37	78.4	80.5	5.5	62.4	5.4	59.5
14	266	38	77.2	79.5	5.4	67.8	5.3	64.8
15	273	39	76.0	78.4	5.3	73.1	5.2	70.0
16	280	40	74.9	77.3	5.2	78.3	5.2	75.2
17	287	41	73.7	76.3	5.2	83.5	5.1	80.3
18	294	42	72.5	75.2	5.1	88.6	5.0	85.3
19	301	43	71.3	74.1	5.0	93.6	4.9	90.2
20	308	44	70.2	73.1	4.9	98.5	4.8	95.0
21	315	45	69.0	72.0	4.8	103.3	4.7	99.7
22	322	46	67.8	71.0	4.7	108.0	4.7	104.4
23	329	47	66.7	69.9	4.7	112.7	4.6	109.0
24	336	48	65.5	68.8	4.6	117.3	4.5	113.5
25	343	49	64.4	67.8	4.5	121.8	4.4	117.9
26	350	50	63.3	66.7	4.4	126.2	4.3	122.2
27	357	51	62.1	65.7	4.3	130.5	4.3	126.5
28	364	52	61.0	64.6	4.3	134.8	4.2	130.7
29	371	53	59.9	63.5	4.2	139.0	4.1	134.8
30	378	54	58.7	62.5	4.1	143.1	4.0	138.8
31	385	55	57.6	61.4	4.0	147.1	3.9	142.7
32	392	56	56.5	60.4	4.0	151.1	3.9	146.6
33	399	57	55.4	59.3	3.9	155.0	3.8	150.4
34	406	58	54.3	58.2	3.8	158.8	3.7	154.1
35	413	59	53.2	57.2	3.7	162.5	3.6	157.7
36	420	60	52.1	56.1	3.6	166.1	3.5	161.2
37	427	61	51.0	55.1	3.6	169.7	3.4	164.6
38	434	62	49.9	54.0	3.5	173.2	3.4	168.0
39	441	63	48.8	52.9	3.4	176.6	3.3	171.3
40	448	64	47.7	51.9	3.3	179.9	3.2	174.5

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	5.4	50.4	2.7	21.2
2	182	26	21.6	52.3	11.3	22.0
3	189	27	51.7	53.9	27.9	22.6
4	196	28	72.9	55.5	40.5	23.3
5	203	29	81.9	56.8	46.5	23.9
6	210	30	85.7	58.0	49.7	24.4
7	217	31	86.5	59.0	51.0	24.8
8	224	32	85.8	59.8	51.3	25.1
9	231	33	84.8	60.4	51.2	25.4
10	238	34	83.7	61.0	51.1	25.6
11	245	35	82.6	61.6	50.9	25.9
12	252	36	81.6	62.1	50.7	26.1
13	259	37	80.5	62.5	50.3	26.3
14	266	38	79.5	62.9	50.0	26.4
15	273	39	78.4	63.3	49.6	26.6
16	280	40	77.3	63.7	49.2	26.8
17	287	41	76.3	64.0	48.8	26.9
18	294	42	75.2	64.4	48.4	27.0
19	301	43	74.1	64.7	47.9	27.2
20	308	44	73.1	65.1	47.6	27.3
21	315	45	72.0	65.4	47.1	27.5
22	322	46	71.0	65.8	46.7	27.6
23	329	47	69.9	66.1	46.2	27.8
24	336	48	68.8	66.5	45.8	27.9
25	343	49	67.8	66.8	45.3	28.1
26	350	50	66.7	67.2	44.8	28.2
27	357	51	65.7	67.5	44.3	28.4
28	364	52	64.6	67.9	43.9	28.5
29	371	53	63.5	68.2	43.3	28.6
30	378	54	62.5	68.5	42.8	28.8
31	385	55	61.4	68.8	42.2	28.9
32	392	56	60.4	69.1	41.7	29.0
33	399	57	59.3	69.4	41.2	29.1
34	406	58	58.2	69.6	40.5	29.2
35	413	59	57.2	69.8	39.9	29.3
36	420	60	56.1	70.0	39.3	29.4
37	427	61	55.1	70.1	38.6	29.4
38	434	62	54.0	70.2	37.9	29.5
39	441	63	52.9	70.3	37.2	29.5
40	448	64	51.9	70.4	36.5	29.6

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	75.6	75.6	0.8	0.8
3	189	27	78.9	78.1	2.5	3.3
4	196	28	81.7	80.0	3.8	7.1
5	203	29	84.0	81.5	4.5	11.6
6	210	30	85.9	82.7	4.9	16.5
7	217	31	87.5	83.8	5.1	21.6
8	224	32	88.7	84.7	5.1	26.7
9	231	33	89.3	85.4	5.1	31.8
10	238	34	89.5	85.9	5.0	36.8
11	245	35	89.6	86.4	5.0	41.8
12	252	36	89.6	86.7	4.9	46.7
13	259	37	89.6	87.0	4.8	51.5
14	266	38	89.6	87.2	4.8	56.3
15	273	39	89.5	87.3	4.7	61.0
16	280	40	89.3	87.5	4.6	65.6
17	287	41	89.1	87.6	4.5	70.1
18	294	42	88.9	87.7	4.4	74.5
19	301	43	88.6	87.7	4.3	78.8
20	308	44	88.2	87.7	4.3	83.1
21	315	45	87.4	87.7	4.2	87.3
22	322	46	87.0	87.7	4.1	91.4
23	329	47	86.4	87.6	4.0	95.4
24	336	48	85.9	87.6	3.9	99.3
25	343	49	85.2	87.5	3.8	103.1
26	350	50	84.6	87.4	3.7	106.8
27	357	51	84.0	87.3	3.6	110.4
28	364	52	83.2	87.1	3.5	113.9
29	371	53	82.4	87.0	3.4	117.3
30	378	54	81.7	86.8	3.3	120.6
31	385	55	80.9	86.7	3.2	123.8
32	392	56	80.0	86.5	3.1	126.9
33	399	57	79.0	86.3	3.0	129.9
34	406	58	78.1	86.1	2.9	132.8
35	413	59	77.2	85.9	2.8	135.6
36	420	60	76.2	85.7	2.7	138.3
37	427	61	75.2	85.5	2.6	140.9
38	434	62	74.1	85.2	2.5	143.4
39	441	63	73.0	85.0	2.4	145.8
40	448	64	71.7	84.8	2.3	148.1

**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
- 15 **Section 2** Female Bodyweight and Feeding Programme
- 16 **Section 2** Weekly Egg Production
- 17 **Section 2** Weekly Egg Weight and Egg Mass
- 18 **Section 2** Weekly Hatchability and Chick Production

### Performance Summary

Global Ross 308 breeder performance objectives for birds light stimulated **before** 21 weeks of age (up to 146 days of age)

#### Summary of 40 weeks of production

<b>Age at depletion</b> (days) (weeks)	434 62	434 62
<b>Total Eggs</b> (HHA)	180	180
<b>Hatching Eggs</b> (HHA)	173	173
<b>Chicks/female housed at 161 days</b> (23 weeks)	147	147
<b>Hatchability %</b>	84.8	84.8
<b>Age at 5% Production</b> (days) (weeks)	161 23	161 23
<b>Peak Production %</b>	85.3	85.3
<b>Bodyweight at 161 days</b> (23 weeks)	2760g	6.08lb
<b>Bodyweight at depletion</b>	3950–4050g	8.71–8.93lb
<b>Mortality + culls %</b> (rearing period)	4–5	4–5
<b>Mortality %</b> (laying period)	8	8
<b>Feed/100 Chicks*</b> day old–434 days (0–62 weeks)	36.6kg	80.69lb
<b>Feed/100 Hatching Eggs*</b> 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) <sup>1</sup>
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.

<sup>1</sup> 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) <sup>1</sup>
0	0			ad lib			ad lib	
7	1	115		25	0.25		5.5	70
14	2	220	105	30	0.49	0.24	6.6	84
21	3	355	135	35	0.78	0.29	7.7	98
28	4	475	120	40	1.05	0.27	8.8	112
35	5	590	115	45	1.30	0.25	9.9	126
42	6	700	110	47	1.54	0.24	10.4	122
49	7	800	100	53	1.76	0.22	11.7	138
56	8	900	100	56	1.98	0.22	12.3	146
63	9	1000	100	58	2.20	0.22	12.8	151
70	10	1100	100	60	2.43	0.23	13.2	156
77	11	1200	100	62	2.65	0.22	13.7	161
84	12	1300	100	64	2.87	0.22	14.1	166
91	13	1400	100	65	3.09	0.22	14.3	169
98	14	1500	100	67	3.31	0.22	14.8	174
105	15	1610	110	68	3.55	0.24	15.0	190
112	16	1730	120	72	3.81	0.26	15.9	202
119	17	1855	125	77	4.09	0.28	17.0	216
126	18	1990	135	83	4.39	0.30	18.3	232
133	19	2135	145	90	4.71	0.32	19.8	252
140	20	2285	150	99	5.04	0.33	21.8	277
147	21	2440	155	107	5.38	0.34	23.6	300
154	22	2600	160	116	5.73	0.35	25.6	325
161	23	2760	160	125	6.08	0.35	27.6	350
168	24	2915	155	138	6.43	0.35	30.4	386
175	25	3065	150	152	6.76	0.33	33.5	426
182	26	3200	135	165	7.05	0.29	36.4	462
189	27	3315	115	165	7.31	0.26	36.4	462
196	28	3400	85	165	7.50	0.19	36.4	462
203	29	3460	60	165	7.63	0.13	36.4	462
210	30	3490	30	165	7.69	0.06	36.4	462
217	31	3515	25	165	7.75	0.06	36.4	462
224	32	3535	20	165	7.79	0.04	36.4	462
231	33	3550	15	165	7.83	0.04	36.4	462
238	34	3565	15	164	7.86	0.03	36.2	459
245	35	3580	15	164	7.89	0.03	36.2	459
252	36	3595	15	163	7.93	0.04	35.9	456
259	37	3610	15	163	7.96	0.03	35.9	456
266	38	3625	15	162	7.99	0.03	35.7	454
273	39	3640	15	162	8.02	0.03	35.7	454
280	40	3655	15	161	8.06	0.04	35.5	451
287	41	3670	15	160	8.09	0.03	35.3	448
294	42	3685	15	160	8.12	0.03	35.3	448
301	43	3700	15	159	8.16	0.04	35.1	445
308	44	3715	15	159	8.19	0.03	35.1	445
315	45	3730	15	158	8.22	0.03	34.8	442
322	46	3745	15	157	8.26	0.04	34.6	440
329	47	3760	15	157	8.29	0.03	34.6	440
336	48	3775	15	156	8.32	0.03	34.4	437
343	49	3790	15	156	8.36	0.04	34.4	437
350	50	3805	15	155	8.39	0.03	34.2	434
357	51	3820	15	155	8.42	0.03	34.2	434
364	52	3835	15	154	8.45	0.03	34.0	431
371	53	3850	15	153	8.49	0.04	33.7	428
378	54	3865	15	153	8.52	0.03	33.7	428
385	55	3880	15	152	8.55	0.03	33.5	426
392	56	3895	15	152	8.59	0.04	33.5	426
399	57	3910	15	151	8.62	0.03	33.3	423
406	58	3925	15	151	8.65	0.03	33.3	423
413	59	3940	15	150	8.69	0.04	33.2	421
420	60	3955	15	149	8.72	0.03	32.8	417
427	61	3970	15	149	8.75	0.03	32.8	417
434	62	3985	15	148	8.79	0.04	32.6	414

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.

<sup>1</sup> 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	5.4	5.4	0.4	0.4		
2	168	24	21.5	21.6	1.5	1.9	0.9	0.9
3	175	25	51.3	51.7	3.6	5.5	2.6	3.5
4	182	26	72.3	72.9	5.1	10.6	4.5	8.0
5	189	27	81.1	81.9	5.7	16.3	5.2	13.2
6	196	28	84.7	85.7	5.9	22.2	5.6	18.8
7	203	29	85.3	86.5	6.0	28.2	5.7	24.5
8	210	30	84.4	85.8	5.9	34.1	5.7	30.2
9	217	31	83.2	84.8	5.8	39.9	5.6	35.8
10	224	32	82.0	83.7	5.7	45.6	5.6	41.4
11	231	33	80.8	82.6	5.7	51.3	5.5	46.9
12	238	34	79.6	81.6	5.6	56.9	5.5	52.4
13	245	35	78.4	80.5	5.5	62.4	5.4	57.8
14	252	36	77.2	79.5	5.4	67.8	5.3	63.1
15	259	37	76.0	78.4	5.3	73.1	5.2	68.3
16	266	38	74.9	77.3	5.2	78.3	5.2	73.5
17	273	39	73.7	76.3	5.2	83.5	5.1	78.6
18	280	40	72.5	75.2	5.1	88.6	5.0	83.6
19	287	41	71.3	74.1	5.0	93.6	4.9	88.5
20	294	42	70.2	73.1	4.9	98.5	4.8	93.3
21	301	43	69.0	72.0	4.8	103.3	4.8	98.1
22	308	44	67.8	71.0	4.7	108.0	4.7	102.8
23	315	45	66.7	69.9	4.7	112.7	4.6	107.4
24	322	46	65.5	68.8	4.6	117.3	4.5	111.9
25	329	47	64.4	67.8	4.5	121.8	4.4	116.3
26	336	48	63.3	66.7	4.4	126.2	4.3	120.6
27	343	49	62.1	65.7	4.3	130.5	4.3	124.9
28	350	50	61.0	64.6	4.3	134.8	4.2	129.1
29	357	51	59.9	63.5	4.2	139.0	4.1	133.2
30	364	52	58.7	62.5	4.1	143.1	4.0	137.2
31	371	53	57.6	61.4	4.0	147.1	4.0	141.2
32	378	54	56.5	60.4	4.0	151.1	3.9	145.1
33	385	55	55.4	59.3	3.9	155.0	3.8	148.9
34	392	56	54.3	58.2	3.8	158.8	3.7	152.6
35	399	57	53.2	57.2	3.7	162.5	3.6	156.2
36	406	58	52.1	56.1	3.6	166.1	3.5	159.7
37	413	59	51.0	55.1	3.6	169.7	3.5	163.2
38	420	60	49.9	54.0	3.5	173.2	3.4	166.6
39	427	61	48.8	52.9	3.4	176.6	3.3	169.9
40	434	62	47.7	51.9	3.3	179.9	3.2	173.1



### 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	5.4	48.6	2.6	20.4
2	168	24	21.6	50.5	10.9	21.2
3	175	25	51.7	52.2	27.0	21.9
4	182	26	72.9	53.7	39.1	22.6
5	189	27	81.9	55.0	45.0	23.1
6	196	28	85.7	56.2	48.2	23.6
7	203	29	86.5	57.3	49.6	24.1
8	210	30	85.8	58.2	49.9	24.4
9	217	31	84.8	59.0	50.0	24.8
10	224	32	83.7	59.8	50.1	25.1
11	231	33	82.6	60.4	49.9	25.4
12	238	34	81.6	61.0	49.8	25.6
13	245	35	80.5	61.6	49.6	25.9
14	252	36	79.5	62.1	49.4	26.1
15	259	37	78.4	62.5	49.0	26.3
16	266	38	77.3	62.9	48.6	26.4
17	273	39	76.3	63.3	48.3	26.6
18	280	40	75.2	63.7	47.9	26.8
19	287	41	74.1	64.0	47.4	26.9
20	294	42	73.1	64.4	47.1	27.0
21	301	43	72.0	64.7	46.6	27.2
22	308	44	71.0	65.1	46.2	27.3
23	315	45	69.9	65.4	45.7	27.5
24	322	46	68.8	65.8	45.3	27.6
25	329	47	67.8	66.1	44.8	27.8
26	336	48	66.7	66.5	44.4	27.9
27	343	49	65.7	66.8	43.9	28.1
28	350	50	64.6	67.2	43.4	28.2
29	357	51	63.5	67.5	42.9	28.4
30	364	52	62.5	67.9	42.4	28.5
31	371	53	61.4	68.2	41.9	28.6
32	378	54	60.4	68.5	41.4	28.8
33	385	55	59.3	68.8	40.8	28.9
34	392	56	58.2	69.1	40.2	29.0
35	399	57	57.2	69.4	39.7	29.1
36	406	58	56.1	69.6	39.0	29.2
37	413	59	55.1	69.8	38.5	29.3
38	420	60	54.0	70.0	37.8	29.4
39	427	61	52.9	70.1	37.1	29.4
40	434	62	51.9	70.2	36.4	29.5

**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	67.1	67.1	0.6	0.6
3	175	25	75.2	73.0	2.0	2.6
4	182	26	78.7	76.2	3.5	6.1
5	189	27	81.4	78.2	4.2	10.3
6	196	28	83.8	79.9	4.7	15.0
7	203	29	85.7	81.2	4.9	19.9
8	210	30	87.3	82.4	5.0	24.9
9	217	31	88.5	83.3	5.0	29.9
10	224	32	89.1	84.1	5.0	34.9
11	231	33	89.3	84.7	4.9	39.8
12	238	34	89.4	85.2	4.9	44.7
13	245	35	89.4	85.6	4.8	49.5
14	252	36	89.3	85.9	4.7	54.2
15	259	37	89.3	86.2	4.6	58.8
16	266	38	89.3	86.4	4.6	63.4
17	273	39	89.1	86.5	4.5	67.9
18	280	40	88.8	86.7	4.4	72.3
19	287	41	88.6	86.8	4.3	76.6
20	294	42	88.3	86.9	4.2	80.8
21	301	43	87.9	86.9	4.2	85.0
22	308	44	87.6	87.0	4.1	89.1
23	315	45	87.2	87.0	4.0	93.1
24	322	46	86.7	87.0	3.9	97.0
25	329	47	86.1	86.9	3.8	100.8
26	336	48	85.6	86.9	3.7	104.5
27	343	49	85.0	86.8	3.7	108.2
28	350	50	84.3	86.7	3.5	111.7
29	357	51	83.7	86.6	3.4	115.1
30	364	52	82.9	86.5	3.3	118.4
31	371	53	82.1	86.4	3.3	121.7
32	378	54	81.4	86.3	3.2	124.9
33	385	55	80.6	86.1	3.1	128.0
34	392	56	79.7	86.0	2.9	130.9
35	399	57	78.7	85.8	2.8	133.7
36	406	58	77.8	85.6	2.7	136.4
37	413	59	76.9	85.4	2.7	139.1
38	420	60	75.8	85.2	2.6	141.7
39	427	61	74.8	85.0	2.5	144.2
40	434	62	73.7	84.8	2.4	146.6





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.

Newbridge, Midlothian  
EH28 8SZ, Scotland, UK

t. +44 (0) 131 333 1056  
f. +44 (0) 131 333 3296  
infoworldwide@aviagen.com

Cummings Research Park, 5015 Bradford Drive  
Huntsville, Alabama 35805, USA

t. +1 256 890 3800  
f. +1 256 890 3919  
info@aviagen.com

[www.aviagen.com](http://www.aviagen.com)

June 2007