PARENT STOCK

ROSS 308

Performance Objectives

2016

ROSS
An Aviagen Brand

Introduction

This booklet contains the performance objectives for Ross® 308 Parent Stock and should be used in conjunction with the **Ross Parent Stock Management Handbook**.

Performance

Poultry production is a global activity, but across the world there are differing management strategies adapted to local conditions.

These performance objectives are for birds that receive the first light stimulation **after** 21 weeks (147 days) of age. This is the most common strategy used worldwide as it gives distinct advantages in early egg size, chick number, and broiler chick quality. If flocks reach 5-10% production prior to 25 weeks of age, early egg size will be reduced resulting in smaller chicks. In managing this, the timing of photostimulation is key.

Achieving the genetic potential of the birds depends on:

- Management to provide birds with their required environment.
- A dietary regime that provides the appropriate nutrients.
- Effective biosecurity and disease control.

If any one of these elements is sub-optimal, performance will suffer. The 3 sectors, environment, nutrition and health, are also interdependent. A problem in any one will result in a negative response by the bird to the other factors.

Data contained within this booklet indicates the performance that can be achieved under good management and environmental conditions and should therefore be regarded as “Performance Objectives” and not specifications. In practice, variations in performance may occur for a wide variety of reasons. For example, feed consumption can be affected significantly by form of feed, energy level, and house temperature.

While every attempt has been made to ensure the accuracy and relevance of the information presented, Aviagen® accepts no liability for the consequences of using this information to manage parent stock.

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 Ross representative.

Contents

Performance Summary

Global Ross 308 breeder performance objectives for birds light-stimulated **after** 21 weeks (147 days).

Summary of 40 weeks of production.

Age at depletion (days) (weeks)	448 64	448 64
Total Eggs (HHA*)	182	182
Hatching Eggs (HHA*)	175	175
Chicks/female housed at 175 days (25 weeks)	148	148
Hatchability %	84.8	84.8
Age at 5% Production (days) (weeks)	175 25	175 25
Peak Production %	85.7	85.7
Body weight at 175 days (25 weeks)	2975 g	6.56 lb
Body weight at depletion	4080-4180 g	8.99-9.22 lb
Mortality + culls % (rearing period)	4–5	4–5
Mortality % (laying period)	8	8
Feed/100 Chicks day old - 448 days (0–64 weeks)	37.7 kg	83.1 lb
Feed/100 Hatching Eggs** day old - 448 days (0–64 weeks)	31.9 kg	70.3 lb

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

NOTES
* Hen-Housed Average.
** Feed amounts expressed in the table do not include male feed allocations.

Female In-Season Body Weight and Feeding Program

All flocks grown in black-out housing are considered in-season.

Age (days)	Age (weeks)	Body Weight (g)	Weekly Gain (g)	Feed (g/bird/day)	Body Weight (lb)	Weekly Gain (lb)	Feed (lb/100/day)	Energy Intake (kcal/bird/day)*
Day old	0	40		ad lib	0.09		ad lib	
7	1	115	75	24	0.25	0.16	5.2	66
14	2	215	100	28	0.47	0.22	6.2	78
21	3	335	120	32	0.74	0.27	6.9	88
28	4	450	115	35	0.99	0.25	7.7	98
35	5	560	110	38	1.23	0.24	8.4	107
42	6	660	100	41	1.46	0.23	9.0	115
49	7	760	100	45	1.68	0.22	9.8	125
56	8	860	100	48	1.90	0.22	10.5	134
63	9	960	100	50	2.12	0.22	11.0	140
70	10	1060	100	53	2.34	0.22	11.6	148
77	11	1160	100	56	2.56	0.22	12.4	158
84	12	1260	100	60	2.78	0.22	13.2	167
91	13	1360	100	63	3.00	0.22	14.0	177
98	14	1460	100	67	3.22	0.22	14.7	187
105	15	1560	100	71	3.44	0.22	15.6	199
112	16	1670	110	76	3.68	0.24	16.7	213
119	17	1790	120	80	3.95	0.27	17.6	224
126	18	1915	125	86	4.22	0.27	18.9	240
133	19	2050	135	92	4.52	0.30	20.2	257
140	20	2195	145	98	4.84	0.32	21.6	274
147	21	2345	150	105	5.17	0.33	23.1	294
154	22	2500	155	111	5.51	0.34	24.4	310
161	23	2660	160	116	5.86	0.36	25.5	325
168	24	2820	160	122	6.22	0.35	26.8	341
175	25	2975	155	129	6.56	0.34	28.4	361
182	26	3120	145	138	6.88	0.32	30.5	388
189	27	3245	125	152	7.15	0.27	33.5	426
196	28	3340	95	165	7.36	0.21	36.3	462
203	29	3395	55	165	7.48	0.12	36.3	462
210	30	3435	40	165	7.57	0.09	36.3	462
217	31	3465	30	165	7.64	0.07	36.3	462
224	32	3490	25	165	7.69	0.05	36.3	462
231	33	3510	20	165	7.74	0.05	36.3	462
238	34	3530	20	165	7.78	0.04	36.3	462
245	35	3550	20	165	7.83	0.05	36.3	462
252	36	3570	20	165	7.87	0.04	36.3	461
259	37	3590	20	164	7.91	0.04	36.2	460
266	38	3610	20	164	7.96	0.05	36.1	459
273	39	3630	20	164	8.00	0.04	36.0	458
280	40	3650	20	163	8.05	0.05	36.0	457
287	41	3670	20	163	8.09	0.04	35.9	456
294	42	3690	20	163	8.13	0.04	35.8	455
301	43	3710	20	162	8.18	0.05	35.8	455
308	44	3730	20	162	8.22	0.04	35.7	454
315	45	3750	20	162	8.27	0.05	35.6	453
322	46	3770	20	161	8.31	0.04	35.5	452
329	47	3790	20	161	8.36	0.05	35.5	451
336	48	3810	20	161	8.40	0.04	35.4	450
343	49	3830	20	160	8.44	0.04	35.3	449
350	50	3850	20	160	8.49	0.05	35.2	448
357	51	3870	20	160	8.53	0.04	35.2	447
364	52	3890	20	159	8.58	0.05	35.1	446
371	53	3910	20	159	8.62	0.04	35.0	445
378	54	3930	20	159	8.66	0.04	34.9	444
385	55	3950	20	158	8.71	0.05	34.9	443
392	56	3970	20	158	8.75	0.04	34.8	442
399	57	3990	20	158	8.80	0.05	34.7	441
406	58	4010	20	157	8.84	0.04	34.7	441
413	59	4030	20	157	8.88	0.04	34.6	440
420	60	4050	20	157	8.93	0.05	34.5	439
427	61	4070	20	156	8.97	0.04	34.4	438
434	62	4090	20	156	9.02	0.05	34.4	437
441	63	4110	20	156	9.06	0.04	34.3	436
448	64	4130	20	155	9.10	0.04	34.2	435

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

North of Equator: Flocks hatched August-December.

South of the Equator: Flocks hatched February- June.

January and July are transitional months so lighting programs for placements during these 2 months should be based on individual experience and location.

*Feed quantities are given as a guide only, based on recommend dietary energy levels of a 2- or 3-stage rearing program (2800 kcal ME/kg; 1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

NOTES

Weekly body-weight gain beyond 33 weeks (231 days) should average approximately 20 g (0.04-0.05 lb).

Body weights are based on a feed day, 4-6 hours after feeding.

Female Out-of-Season Body Weight and Feeding Program

Age (days)	Age (weeks)	Body Weight (g)	Weekly Gain (g)	Feed (g/bird/day)	Body Weight (lb)	Weekly Gain (lb)	Feed (lb/100/day)	Energy Intake (kcal/bird/day)*
Day old	0	40		ad lib	0.09		ad lib	
7	1	115	75	23	0.25	0.16	5.5	66
14	2	215	100	28	0.47	0.22	6.6	79
21	3	330	115	32	0.73	0.26	7.5	89
28	4	450	120	35	0.99	0.26	8.3	99
35	5	560	110	39	1.23	0.24	9.1	109
42	6	660	100	42	1.45	0.22	9.8	117
49	7	760	100	45	1.67	0.22	10.7	127
56	8	870	110	49	1.92	0.25	11.5	136
63	9	980	110	51	2.16	0.24	12.0	143
70	10	1090	110	54	2.40	0.24	12.7	151
77	11	1200	110	58	2.64	0.24	13.7	162
84	12	1300	100	62	2.86	0.22	14.5	172
91	13	1400	100	66	3.08	0.22	15.5	184
98	14	1500	100	70	3.30	0.22	16.5	195
105	15	1610	110	75	3.55	0.25	17.6	209
112	16	1740	130	80	3.83	0.28	18.9	225
119	17	1880	140	85	4.14	0.31	20.0	237
126	18	2020	140	90	4.45	0.31	21.3	253
133	19	2160	140	96	4.76	0.31	22.5	268
140	20	2300	140	101	5.07	0.31	23.8	282
147	21	2460	160	106	5.42	0.35	25.1	298
154	22	2640	180	111	5.81	0.39	26.3	312
161	23	2800	160	116	6.17	0.36	27.4	325
168	24	2950	150	122	6.50	0.33	28.7	341
175	25	3090	140	129	6.81	0.31	30.5	362
182	26	3220	130	139	7.09	0.28	32.9	390
189	27	3330	110	153	7.33	0.24	36.1	429
196	28	3420	90	167	7.53	0.20	39.3	467
203	29	3490	70	167	7.69	0.16	39.3	467
210	30	3540	50	167	7.80	0.11	39.3	467
217	31	3580	40	167	7.89	0.09	39.3	467
224	32	3610	30	167	7.95	0.06	39.3	467
231	33	3630	20	167	8.00	0.05	39.3	467
238	34	3650	20	167	8.04	0.04	39.3	467
245	35	3670	20	167	8.08	0.04	39.3	467
252	36	3690	20	166	8.13	0.05	39.3	466
259	37	3710	20	166	8.17	0.04	39.2	465
266	38	3730	20	166	8.22	0.04	39.1	464
273	39	3750	20	165	8.26	0.04	39.0	463
280	40	3770	20	165	8.30	0.04	38.9	462
287	41	3790	20	165	8.35	0.05	38.9	461
294	42	3810	20	164	8.39	0.04	38.8	460
301	43	3830	20	164	8.44	0.05	38.7	459
308	44	3850	20	164	8.48	0.04	38.6	458
315	45	3870	20	163	8.52	0.04	38.5	457
322	46	3890	20	163	8.57	0.05	38.5	457
329	47	3910	20	163	8.61	0.04	38.4	456
336	48	3930	20	162	8.66	0.05	38.3	455
343	49	3950	20	162	8.70	0.04	38.2	454
350	50	3970	20	162	8.74	0.04	38.1	453
357	51	3990	20	161	8.79	0.05	38.1	452
364	52	4010	20	161	8.83	0.04	38.0	451
371	53	4030	20	161	8.88	0.05	37.9	450
378	54	4050	20	160	8.92	0.04	37.8	449
385	55	4070	20	160	8.96	0.04	37.7	448
392	56	4090	20	160	9.01	0.05	37.7	447
399	57	4110	20	159	9.05	0.04	37.6	446
406	58	4130	20	159	9.10	0.05	37.5	445
413	59	4150	20	159	9.14	0.04	37.4	444
420	60	4170	20	158	9.19	0.05	37.3	443
427	61	4190	20	158	9.23	0.04	37.3	442
434	62	4210	20	158	9.27	0.04	37.2	441
441	63	4230	20	157	9.32	0.05	37.1	441
448	64	4250	20	157	9.36	0.04	37.0	440

KEY

(kg/g) – metric measurement

(lb/oz) – imperial measurement

North of the Equator: Flocks hatched February-June.

South of the Equator: Flocks hatched August-December.

January and July are transitional months so lighting programs for placements during these 2 months should be based on individual experience and location.

*Feed quantities are given as a guide only, based on recommend dietary energy levels of a 2- or 3-stage rearing program (2800 kcal ME/kg; 1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

NOTES

Weekly body-weight gain beyond 33 weeks (231 days) should average approximately 20 g (0.04-0.05 lb).

Body weights are based on a feed day, 4-6 hours after feeding.

Female In-Season Feeding into Lay

Hen-Day (%)	Daily Energy Intake (kcal ME/bird/day)*	Feed Intake (g/bird/day)	Feed Increase (g/bird/day)
5	361	129	
10	369	132	3
15	377	135	3
20	385	137	2
25	391	140	3
30	398	142	2
35	404	144	2
40	410	146	2
45	416	149	3
50	423	151	2
55	430	154	3
60	438	157	3
65	447	160	3
70	455	163	3
peak	462	165	2

Female Out-of-Season Feeding into Lay

Hen-Day (%)	Daily Energy Intake (kcal ME/bird/day)*	Feed Intake (g/bird/day)	Feed Increase (g/bird/day)
5	362	129	
10	370	132	3
15	379	135	3
20	387	138	3
25	393	141	3
30	400	143	2
35	406	145	2
40	413	147	2
45	419	150	3
50	426	152	2
55	433	155	3
60	442	158	3
65	451	161	3
70	460	164	3
peak	467	167	3

*Daily energy and feed intakes are based on current recommended dietary levels of energy (2800 kcal ME/kg; 1270 kcal ME/lb) and assuming an ambient temperature of 20-21°C (68-70°F).

NOTES

Feeding programs should be adjusted according to actual feed intake at 5% hen-day production. It may be necessary to adjust feed amounts daily (rather than every 5% as given in the table), taking into account the rate of daily production. Adjustments to feed amounts will need to be made if dietary energy levels are different to those recommended or if environmental temperatures are warmer or cooler than assumed here.

Female In-Season Nutrient Allocation at Peak

Nutrient	Nutrient Allocation at Peak
Energy (kcal/bird/day)*	462
Digestable Amino Acids (mg/bird/day)	
Lysine	990
Methionine & Cystine	974
Methionine	611
Threonine	809
Valine	924
Isoleucine	825
Argenine	1304
Tryptophan	231
Minerals (mg/bird/day)	
Calcium	4950
Available Phosphorus	578

Female Out-of-Season Nutrient Allocation at Peak

Nutrient	Nutrient Allocation at Peak
Energy (kcal/bird/day)*	467
Digestable Amino Acids (mg/bird/day)	
Lysine	1002
Methionine & Cystine	985
Methionine	618
Threonine	818
Valine	935
Isoleucine	835
Argenine	1319
Tryptophan	234
Minerals (mg/bird/day)	
Calcium	5010
Available Phosphorus	585

*Based on a recommended energy level of 2800 kcal ME/kg (1270 kcal ME/lb).

Male Body Weight and Feeding Program

Age (days)	Age (weeks)	Body Weight (g)	Weekly Gain (g)	Feed (g/bird/day)	Body Weight (lb)	Weekly Gain (lb)	Feed (lb/100/day)	Energy Intake (kcal/bird/day)*
Day Old	0	40		ad lib	0.09		ad lib	
7	1	150	110	35	0.33	0.24	7.6	97
14	2	320	170	42	0.70	0.37	9.3	118
21	3	525	205	48	1.16	0.46	10.5	134
28	4	755	230	52	1.66	0.50	11.5	147
35	5	945	190	56	2.08	0.42	12.4	158
42	6	1130	185	60	2.49	0.41	13.2	168
49	7	1280	150	63	2.82	0.33	13.9	177
56	8	1420	140	66	3.13	0.31	14.6	185
63	9	1545	125	69	3.40	0.27	15.2	194
70	10	1670	125	72	3.68	0.28	15.9	202
77	11	1795	125	75	3.95	0.27	16.5	210
84	12	1920	125	78	4.23	0.28	17.2	218
91	13	2045	125	81	4.50	0.27	17.8	227
98	14	2170	125	84	4.78	0.28	18.6	236
105	15	2295	125	88	5.06	0.28	19.3	246
112	16	2420	125	92	5.33	0.27	20.2	257
119	17	2560	140	96	5.64	0.31	21.2	269
126	18	2715	155	101	5.98	0.34	22.2	282
133	19	2875	160	106	6.33	0.35	23.3	296
140	20	3035	160	111	6.69	0.36	24.4	310
147	21	3195	160	115	7.04	0.35	25.4	323
154	22	3355	160	120	7.39	0.35	26.3	335
161	23	3515	160	123	7.74	0.35	27.2	346
168	24	3675	160	127	8.09	0.35	27.9	355
175	25	3825	150	134	8.43	0.34	29.5	361
182	26	3960	135	136	8.72	0.29	29.9	366
189	27	4035	75	137	8.89	0.17	30.2	371
196	28	4090	55	139	9.01	0.12	30.5	374
203	29	4120	30	140	9.07	0.06	30.8	377
210	30	4150	30	141	9.14	0.07	31.0	380
217	31	4180	30	141	9.21	0.07	31.2	382
224	32	4210	30	142	9.27	0.06	31.3	384
231	33	4240	30	143	9.34	0.07	31.5	386
238	34	4270	30	144	9.41	0.07	31.6	388
245	35	4300	30	144	9.47	0.06	31.8	389
252	36	4330	30	145	9.54	0.07	31.9	391
259	37	4360	30	145	9.60	0.06	32.0	392
266	38	4390	30	146	9.67	0.07	32.1	394
273	39	4420	30	146	9.74	0.07	32.2	395
280	40	4450	30	147	9.80	0.06	32.3	397
287	41	4480	30	147	9.87	0.07	32.5	398
294	42	4510	30	148	9.93	0.06	32.6	399
301	43	4540	30	148	10.00	0.07	32.7	401
308	44	4570	30	149	10.07	0.07	32.8	402
315	45	4600	30	149	10.13	0.06	32.9	403
322	46	4630	30	150	10.20	0.07	33.0	404
329	47	4660	30	150	10.26	0.06	33.1	406
336	48	4690	30	151	10.33	0.07	33.2	407
343	49	4720	30	151	10.40	0.07	33.3	408
350	50	4750	30	152	10.46	0.06	33.4	410
357	51	4780	30	152	10.53	0.07	33.5	411
364	52	4810	30	153	10.59	0.06	33.6	412
371	53	4840	30	153	10.66	0.07	33.7	413
378	54	4870	30	154	10.73	0.07	33.8	415
385	55	4900	30	154	10.79	0.06	33.9	416
392	56	4930	30	155	10.86	0.07	34.0	417
399	57	4960	30	155	10.93	0.07	34.1	419
406	58	4990	30	155	10.99	0.06	34.2	420
413	59	5020	30	156	11.06	0.07	34.3	421
420	60	5050	30	156	11.12	0.06	34.5	422
427	61	5080	30	157	11.19	0.07	34.6	424
434	62	5110	30	157	11.26	0.07	34.7	425
441	63	5140	30	158	11.32	0.06	34.8	426
448	64	5170	30	158	11.39	0.07	34.9	427

KEY

(kg/g) – metric measurement

(lb/oz) – imperial measurement

*Feed quantities are given as a guide only, based on recommended dietary energy levels of a 2- or 3-stage rearing program (2800 kcal ME/kg; 1270 kcal ME/lb) and a male diet in lay (2700 kcal ME/kg; 1225 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

NOTES

Body weights are those 4-6 hours after feeding.

This profile allows the male to reach sexual maturity by first egg. Weekly body-weight gain beyond 29 weeks (203 days) should average approximately 30 g (0.06-0.07 lb).

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.

Weekly Egg Production

Week of Production	Age (days)	Age (weeks)	Hen-Housed (%)	Hen-Week (%)*	Eggs/Bird/ Week Hen-Housed	Eggs/Bird/ Cum. Hen-Housed	Hatching Eggs/Bird/ Week**	Hatching Eggs/Bird/ Cum.	Hatching Egg Utilization Weekly	Hatching Egg Utilization Cum.
1	175	25	5.4	5.4	0.38	0.38				
2	182	26	22.2	22.3	1.55	1.93	1.12	1.12	72.26	58.03
3	189	27	52.2	52.5	3.65	5.58	3.22	4.34	88.22	77.78
4	196	28	73.6	74.2	5.15	10.73	4.72	9.06	91.65	84.44
5	203	29	82.2	83.0	5.75	16.48	5.42	14.48	94.26	87.86
6	210	30	85.1	86.1	5.95	22.43	5.72	20.20	96.13	90.06
7	217	31	85.7	86.9	6.00	28.43	5.82	26.02	97.00	91.52
8	224	32	85.1	86.4	5.95	34.38	5.82	31.84	97.82	92.61
9	231	33	83.9	85.4	5.87	40.25	5.74	37.58	97.79	93.37
10	238	34	82.7	84.4	5.79	46.04	5.65	43.23	97.58	93.90
11	245	35	81.6	83.4	5.71	51.75	5.57	48.80	97.55	94.30
12	252	36	80.4	82.4	5.63	57.38	5.49	54.29	97.51	94.61
13	259	37	79.3	81.4	5.55	62.93	5.41	59.70	97.48	94.87
14	266	38	78.1	80.3	5.47	68.40	5.32	65.02	97.26	95.06
15	273	39	76.9	79.3	5.39	73.79	5.24	70.26	97.22	95.22
16	280	40	75.8	78.3	5.30	79.09	5.15	75.41	97.17	95.35
17	287	41	74.6	77.2	5.22	84.31	5.07	80.48	97.12	95.46
18	294	42	73.5	76.2	5.14	89.45	4.99	85.47	97.07	95.55
19	301	43	72.3	75.1	5.06	94.51	4.91	90.38	97.03	95.63
20	308	44	71.1	74.1	4.98	99.49	4.83	95.21	96.98	95.70
21	315	45	70.0	73.0	4.90	104.39	4.75	99.96	96.93	95.75
22	322	46	68.8	72.0	4.82	109.21	4.67	104.63	96.88	95.80
23	329	47	67.6	70.9	4.74	113.95	4.59	109.22	96.84	95.85
24	336	48	66.5	69.8	4.65	118.60	4.50	113.72	96.79	95.88
25	343	49	65.3	68.8	4.57	123.17	4.42	118.14	96.74	95.92
26	350	50	64.2	67.7	4.49	127.66	4.34	122.48	96.69	95.94
27	357	51	63.0	66.6	4.41	132.07	4.26	126.74	96.64	95.97
28	364	52	61.8	65.5	4.33	136.40	4.18	130.93	96.60	95.99
29	371	53	60.7	64.4	4.25	140.65	4.10	135.03	96.55	96.00
30	378	54	59.5	63.3	4.17	144.82	4.02	139.05	96.50	96.02
31	385	55	58.4	62.2	4.09	148.91	3.94	143.00	96.45	96.03
32	392	56	57.2	61.1	4.00	152.91	3.86	146.85	96.41	96.04
33	399	57	56.0	60.0	3.92	156.83	3.78	150.63	96.36	96.05
34	406	58	54.9	58.9	3.84	160.67	3.70	154.33	96.31	96.05
35	413	59	53.7	57.8	3.76	164.43	3.62	157.95	96.26	96.06
36	420	60	52.6	56.6	3.68	168.11	3.54	161.49	96.21	96.06
37	427	61	51.4	55.5	3.60	171.71	3.46	164.95	96.17	96.06
38	434	62	50.2	54.4	3.52	175.23	3.38	168.34	96.12	96.07
39	441	63	49.1	53.2	3.44	178.67	3.30	171.64	96.07	96.07
40	448	64	47.9	52.1	3.35	182.02	3.22	174.86	96.12	96.07

NOTES

** Hen-week (%) is based on the assumption that mortality in lay is 8% with 0.2% mortality per week.*

*** A hatching egg is considered to be an egg which is 50 g (21.2 oz/dozen) or heavier.*

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	77.8	77.8	0.87	0.87
3	189	27	80.6	79.8	2.59	3.47
4	196	28	83.0	81.5	3.92	7.38
5	203	29	85.0	82.8	4.61	11.99
6	210	30	86.7	83.9	4.96	16.94
7	217	31	88.0	84.8	5.12	22.07
8	224	32	89.1	85.6	5.19	27.25
9	231	33	89.9	86.3	5.16	32.42
10	238	34	90.5	86.8	5.12	37.53
11	245	35	90.9	87.3	5.06	42.60
12	252	36	91.1	87.7	5.00	47.60
13	259	37	91.2	88.0	4.93	52.53
14	266	38	91.1	88.3	4.85	57.38
15	273	39	90.9	88.4	4.76	62.14
16	280	40	90.6	88.6	4.66	66.81
17	287	41	90.2	88.7	4.57	71.38
18	294	42	89.7	88.8	4.48	75.86
19	301	43	89.2	88.8	4.38	80.24
20	308	44	88.6	88.8	4.28	84.52
21	315	45	88.0	88.7	4.18	88.70
22	322	46	87.4	88.7	4.08	92.78
23	329	47	86.8	88.6	3.98	96.76
24	336	48	85.8	88.5	3.86	100.62
25	343	49	84.8	88.3	3.75	104.37
26	350	50	83.8	88.2	3.64	108.01
27	357	51	82.8	88.0	3.53	111.54
28	364	52	81.8	87.8	3.42	114.96
29	371	53	80.9	87.6	3.32	118.28
30	378	54	79.9	87.4	3.21	121.49
31	385	55	78.9	87.1	3.11	124.61
32	392	56	77.9	86.9	3.00	127.61
33	399	57	76.9	86.6	2.91	130.51
34	406	58	75.9	86.4	2.81	133.32
35	413	59	74.9	86.1	2.71	136.04
36	420	60	74.0	85.9	2.62	138.65
37	427	61	73.0	85.6	2.53	141.18
38	434	62	72.0	85.3	2.44	143.62
39	441	63	71.0	85.0	2.35	145.96
40	448	64	70.0	84.8	2.25	148.22

NOTES

** Hatchability is based on an average egg age of 3 days. Hatchability will drop by 0.5% per day of storage between 7 and 11 days.*

Weekly Egg Weight and Egg Mass

Week of Production	Age (days)	Age (weeks)	Hen-Week (%)	Egg Weight (g)	Egg Mass* (g)	Egg Weight (oz/dozen)
1	175	25	5.4	50.4	2.7	21.3
2	182	26	22.3	52.3	11.7	22.1
3	189	27	52.5	53.9	28.3	22.8
4	196	28	74.2	55.5	41.2	23.5
5	203	29	83.0	56.8	47.1	24.0
6	210	30	86.1	58.0	49.9	24.5
7	217	31	86.9	59.0	51.7	25.0
8	224	32	86.4	59.8	51.7	25.3
9	231	33	85.4	60.4	51.6	25.6
10	238	34	84.4	61.0	51.5	25.8
11	245	35	83.4	61.6	51.4	26.1
12	252	36	82.4	62.1	51.2	26.3
13	259	37	81.4	62.5	50.9	26.5
14	266	38	80.3	62.9	50.5	26.6
15	273	39	79.3	63.3	50.2	26.8
16	280	40	78.3	63.7	49.9	27.0
17	287	41	77.2	64.0	49.4	27.1
18	294	42	76.2	64.4	49.1	27.3
19	301	43	75.1	64.7	48.6	27.4
20	308	44	74.1	65.1	48.2	27.6
21	315	45	73.0	65.4	47.7	27.7
22	322	46	72.0	65.8	47.4	27.8
23	329	47	70.9	66.1	46.9	28.0
24	336	48	69.8	66.5	46.4	28.1
25	343	49	68.8	66.8	46.0	28.3
26	350	50	67.7	67.2	45.5	28.4
27	357	51	66.6	67.5	45.0	28.6
28	364	52	65.5	67.9	44.5	28.7
29	371	53	64.4	68.2	43.9	28.9
30	378	54	63.3	68.5	43.4	29.0
31	385	55	62.2	68.8	42.8	29.1
32	392	56	61.1	69.1	42.2	29.2
33	399	57	60.0	69.4	41.6	29.4
34	406	58	58.9	69.6	41.0	29.5
35	413	59	57.8	69.8	40.3	29.5
36	420	60	56.6	70.0	39.6	29.6
37	427	61	55.5	70.1	38.9	29.7
38	434	62	54.4	70.2	38.2	29.7
39	441	63	53.2	70.3	37.4	29.8
40	448	64	52.1	70.4	36.7	29.8

KEY
(kg/g) – metric measurement

(lb/oz) – imperial measurement

NOTE

$$* \text{ Egg mass (g)} = \frac{\text{Hen-week (\%)} \times \text{Egg weight (g)}}{100}$$

Notes

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