PARENT STOCK

EFFICIENCY PRO X ROSS 308 FF

Performance Objectives

2021

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Introduction

This booklet contains the performance objectives for Efficiency Pro™ (EP) x Ross® 308 FF parent stock and should be used in conjunction with the **Ross Parent Stock Management Handbook** and the **Ross 308 FF Management Supplement.**

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 numbers and broiler chick quality.

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 three 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 condition and when feeding the recommended nutrient levels. They should be therefore 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 consequence 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

03 Performance Summary

04 Female In-Season Body Weight and Feeding Program

05 Female Out-of-Season Body Weight and Feeding Program

06 Feeding into Lay

07 Male Body Weight and Feeding Program

08 Weekly Egg Production

09 Weekly Hatchability and Chick Production

10 Weekly Egg Weight and Egg Mass

Performance Summary

The figures below are for birds light-stimulated **after** 21 weeks (147 days of age).

Summary of 40 weeks of production.

Age at depletion (days) (weeks)	448 64	448 64
Total Eggs (HHA)*	188.8	188.8
Hatching Eggs (HHA)*	178.4	178.4
Chicks/female housed at 175 days (25 weeks)	155.7	155.7
Hatchability %	87.3	87.3
Age at 5% Production (days) (weeks)	175 25	175 25
Peak Production %	88.2	88.2
Body weight at 175 days (25 weeks)**	2970-3085 g	6.5-6.8 lb
Body weight at depletion**	4085-4205 g	9.0-9.3 lb
Liveability % (rearing period)	95-96	95-96
Liveability % (laying period)	92	92
Feed/100 Chicks* day old - 448 days (0–64 weeks)	35.6 kg	78.5 lb
Feed/100 Hatching Eggs* day old - 448 days (0–64 weeks)	31.0 kg	66.1 lb

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

* Hen-Housed Average.
** Body-weight ranges at 175 days (25 weeks) and at depletion are those for in-season and out-of-season females.
*** Feed amounts expressed in the table do not include male feed allocations.

Female In-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	ad lib
7	1	115	75	20	0.25	0.16	4.3	55
14	2	215	100	25	0.47	0.22	5.6	71
21	3	335	120	30	0.74	0.27	6.7	85
28	4	465	130	34	1.03	0.29	7.5	95
35	5	585	120	37	1.29	0.26	8.2	104
42	6	695	110	40	1.53	0.24	8.8	111
49	7	795	100	43	1.75	0.22	9.4	120
56	8	895	100	46	1.97	0.22	10.1	129
63	9	995	100	49	2.19	0.22	10.9	138
70	10	1095	100	53	2.41	0.22	11.6	148
77	11	1195	100	56	2.63	0.22	12.4	158
84	12	1295	100	60	2.85	0.22	13.2	168
91	13	1395	100	63	3.08	0.23	14.0	178
98	14	1495	100	67	3.30	0.22	14.7	187
105	15	1595	100	71	3.52	0.22	15.7	199
112	16	1705	110	76	3.76	0.24	16.7	212
119	17	1825	120	80	4.02	0.26	17.7	225
126	18	1950	125	85	4.30	0.28	18.8	239
133	19	2085	135	91	4.60	0.30	20.0	254
140	20	2230	145	96	4.92	0.32	21.2	269
147	21	2380	150	101	5.25	0.33	22.2	282
154	22	2530	150	105	5.58	0.33	23.2	295
161	23	2680	150	110	5.91	0.33	24.2	307
168	24	2830	150	116	6.24	0.33	25.5	324
175	25	2970	140	127	6.55	0.31	27.9	355
182	26	3090	120	144	6.81	0.26	31.7	403
189	27	3190	100	158	7.03	0.22	34.8	442
196	28	3290	100	165	7.25	0.22	36.4	462
203	29	3360	70	165	7.41	0.16	36.4	462
210	30	3410	50	165	7.52	0.11	36.4	462
217	31	3450	40	165	7.61	0.09	36.4	462
224	32	3490	40	165	7.69	0.08	36.4	462
231	33	3530	40	165	7.78	0.09	36.4	462
238	34	3570	40	165	7.87	0.09	36.4	462
245	35	3600	30	165	7.94	0.07	36.4	462
252	36	3630	30	164	8.00	0.06	36.3	461
259	37	3655	25	164	8.06	0.06	36.2	460
266	38	3680	25	164	8.11	0.05	36.2	460
273	39	3705	25	164	8.17	0.06	36.0	458
280	40	3725	20	163	8.21	0.04	36.0	457
287	41	3745	20	163	8.26	0.05	35.9	456
294	42	3765	20	162	8.30	0.04	35.8	455
301	43	3785	20	162	8.34	0.04	35.7	454
308	44	3805	20	162	8.39	0.05	35.7	453
315	45	3825	20	162	8.43	0.04	35.6	452
322	46	3845	20	161	8.48	0.05	35.5	451
329	47	3865	20	161	8.52	0.04	35.4	450
336	48	3885	20	160	8.56	0.04	35.4	449
343	49	3905	20	160	8.61	0.05	35.3	448
350	50	3925	20	160	8.65	0.04	35.2	447
357	51	3945	20	159	8.70	0.05	35.1	445
364	52	3960	15	158	8.73	0.03	34.9	444
371	53	3975	15	158	8.76	0.03	34.7	441
378	54	3985	10	157	8.79	0.03	34.6	439
385	55	3995	10	156	8.81	0.02	34.4	437
392	56	4005	10	156	8.83	0.02	34.3	436
399	57	4015	10	155	8.85	0.02	34.2	435
406	58	4025	10	155	8.87	0.02	34.2	434
413	59	4035	10	155	8.90	0.03	34.1	433
420	60	4045	10	154	8.92	0.02	34.0	431
427	61	4055	10	154	8.94	0.02	33.9	430
434	62	4065	10	153	8.96	0.02	33.8	429
441	63	4075	10	153	8.98	0.02	33.7	428
448	64	4085	10	153	9.01	0.03	33.7	428

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

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

Weekly body-weight gain beyond 39 weeks (273 days) should average approximately 10-20 g (0.02-0.05 lb).

* Feed quantities are a guide only, based on recommended dietary energy levels of 2800 kcal ME/kg (1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

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	ad lib
7	1	115	75	20	0.25	0.16	4.3	55
14	2	215	100	25	0.47	0.22	5.5	69
21	3	330	115	30	0.73	0.26	6.7	85
28	4	465	135	34	1.02	0.29	7.5	95
35	5	585	120	37	1.29	0.27	8.2	104
42	6	695	110	40	1.53	0.24	8.7	111
49	7	795	100	43	1.75	0.22	9.5	121
56	8	905	110	47	1.99	0.24	10.4	132
63	9	1015	110	51	2.23	0.24	11.2	142
70	10	1125	110	54	2.47	0.24	12.0	152
77	11	1235	110	58	2.72	0.25	12.7	161
84	12	1335	100	61	2.94	0.22	13.4	170
91	13	1435	100	64	3.16	0.22	14.1	180
98	14	1535	100	68	3.38	0.22	15.0	191
105	15	1645	110	73	3.62	0.24	16.2	206
112	16	1775	130	79	3.90	0.28	17.4	221
119	17	1915	140	84	4.21	0.31	18.5	235
126	18	2055	140	89	4.52	0.31	19.6	248
133	19	2195	140	93	4.83	0.31	20.5	260
140	20	2335	140	99	5.14	0.31	21.8	276
147	21	2495	160	105	5.49	0.35	23.2	295
154	22	2670	175	109	5.87	0.38	24.1	306
161	23	2820	150	112	6.20	0.33	24.8	314
168	24	2960	140	118	6.51	0.31	26.1	331
175	25	3085	125	128	6.79	0.28	28.2	359
182	26	3190	105	144	7.02	0.23	31.7	403
189	27	3275	85	158	7.20	0.18	34.9	443
196	28	3370	95	168	7.41	0.21	36.9	469
203	29	3455	85	168	7.60	0.19	36.9	469
210	30	3515	60	168	7.73	0.13	36.9	469
217	31	3565	50	168	7.84	0.11	36.9	469
224	32	3610	45	168	7.94	0.10	36.9	469
231	33	3650	40	168	8.03	0.09	36.9	469
238	34	3690	40	168	8.12	0.09	36.9	469
245	35	3720	30	168	8.18	0.06	36.9	469
252	36	3750	30	167	8.25	0.07	36.7	467
259	37	3775	25	166	8.30	0.05	36.7	466
266	38	3800	25	166	8.36	0.06	36.7	466
273	39	3825	25	166	8.41	0.05	36.5	464
280	40	3845	20	165	8.46	0.05	36.4	462
287	41	3865	20	165	8.50	0.04	36.3	461
294	42	3885	20	164	8.55	0.05	36.3	460
301	43	3905	20	164	8.59	0.04	36.2	460
308	44	3925	20	164	8.63	0.04	36.1	459
315	45	3945	20	164	8.68	0.05	36.1	458
322	46	3965	20	163	8.72	0.04	36.0	457
329	47	3985	20	163	8.77	0.05	35.9	456
336	48	4005	20	162	8.81	0.04	35.8	455
343	49	4025	20	162	8.85	0.04	35.7	454
350	50	4045	20	162	8.90	0.05	35.7	453
357	51	4065	20	161	8.94	0.04	35.5	451
364	52	4080	15	160	8.98	0.04	35.4	449
371	53	4095	15	159	9.01	0.03	35.2	447
378	54	4105	10	159	9.03	0.02	35.0	445
385	55	4115	10	158	9.05	0.02	34.9	443
392	56	4125	10	158	9.07	0.02	34.8	442
399	57	4135	10	157	9.10	0.03	34.7	440
406	58	4145	10	157	9.12	0.02	34.6	439
413	59	4155	10	156	9.14	0.02	34.5	438
420	60	4165	10	156	9.16	0.02	34.4	437
427	61	4175	10	156	9.18	0.02	34.3	436
434	62	4185	10	155	9.21	0.03	34.2	435
441	63	4195	10	155	9.23	0.02	34.2	434
448	64	4205	10	155	9.25	0.02	34.1	433

KEY

(kg/g) – metric measurement

(lb/oz) – imperial measurement

NOTES

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

Weekly body-weight gain beyond 39 weeks (273 days) should average approximately 10-20 g (0.02-0.05 lb).

* Feed quantities are a guide only, based on recommended dietary energy levels of 2800 kcal ME/kg (1270 kcal ME/lb). Adjustments must be made to reflect feeding differing energy levels.

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	355	127	
10	361	129	2
15	366	131	2
20	372	133	2
25	380	136	3
30	389	139	3
35	397	142	3
40	405	145	3
45	414	148	3
50	425	152	4
55	436	156	4
65	447	160	4
>75	462	165	5

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	359	128	
10	365	130	2
15	370	132	2
20	376	134	2
25	384	137	3
30	393	140	3
35	401	143	3
40	409	146	3
45	421	150	4
50	432	154	4
55	443	158	4
65	457	163	5
>75	469	168	5

NOTES
Feeding program 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.

* 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).

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	33	0.33	0.24	7.2	92
14	2	320	170	42	0.70	0.37	9.3	118
21	3	525	205	49	1.16	0.46	10.8	137
28	4	755	230	54	1.66	0.50	11.9	152
35	5	945	190	58	2.08	0.42	12.8	162
42	6	1130	185	61	2.49	0.41	13.4	170
49	7	1280	150	63	2.82	0.33	13.9	177
56	8	1420	140	65	3.13	0.31	14.4	183
63	9	1545	125	67	3.40	0.27	14.8	188
70	10	1670	125	69	3.68	0.28	15.3	194
77	11	1795	125	72	3.95	0.27	15.8	200
84	12	1920	125	74	4.23	0.28	16.4	208
91	13	2045	125	77	4.50	0.27	17.0	216
98	14	2170	125	80	4.78	0.28	17.6	224
105	15	2295	125	83	5.06	0.28	18.4	233
112	16	2420	125	87	5.33	0.27	19.1	243
119	17	2560	140	90	5.64	0.31	19.8	252
126	18	2715	155	93	5.98	0.34	20.6	262
133	19	2875	160	98	6.33	0.35	21.5	273
140	20	3035	160	102	6.69	0.36	22.5	286
147	21	3195	160	107	7.04	0.35	23.5	299
154	22	3355	160	112	7.39	0.35	24.7	313
161	23	3515	160	118	7.74	0.35	26.0	330
168	24	3675	160	121	8.09	0.35	26.7	340
175	25	3825	150	123	8.43	0.34	27.1	344
182	26	3960	135	124	8.72	0.29	27.4	348
189	27	4035	75	125	8.89	0.17	27.6	351
196	28	4090	55	126	9.01	0.12	27.8	353
203	29	4120	30	127	9.07	0.06	28.0	355
210	30	4150	30	128	9.14	0.07	28.1	357
217	31	4180	30	128	9.21	0.07	28.3	360
224	32	4210	30	129	9.27	0.06	28.5	362
231	33	4240	30	130	9.34	0.07	28.7	365
238	34	4270	30	131	9.41	0.07	28.9	367
245	35	4300	30	132	9.47	0.06	29.1	370
252	36	4330	30	133	9.54	0.07	29.3	372
259	37	4360	30	134	9.60	0.06	29.5	375
266	38	4390	30	135	9.67	0.07	29.7	377
273	39	4420	30	136	9.74	0.07	29.9	380
280	40	4450	30	136	9.80	0.06	30.1	382
287	41	4480	30	137	9.87	0.07	30.3	384
294	42	4510	30	138	9.93	0.06	30.5	387
301	43	4540	30	139	10.00	0.07	30.6	389
308	44	4570	30	140	10.07	0.07	30.8	392
315	45	4600	30	141	10.13	0.06	31.0	394
322	46	4630	30	141	10.20	0.07	31.2	396
329	47	4660	30	142	10.26	0.06	31.4	398
336	48	4690	30	143	10.33	0.07	31.5	401
343	49	4720	30	144	10.40	0.07	31.7	403
350	50	4750	30	145	10.46	0.06	31.9	405
357	51	4780	30	145	10.53	0.07	32.1	407
364	52	4810	30	146	10.59	0.06	32.2	409
371	53	4840	30	147	10.66	0.07	32.4	411
378	54	4870	30	148	10.73	0.07	32.5	413
385	55	4900	30	148	10.79	0.06	32.7	415
392	56	4930	30	149	10.86	0.07	32.8	417
399	57	4960	30	150	10.93	0.07	33.0	419
406	58	4990	30	150	10.99	0.06	33.1	421
413	59	5020	30	151	11.06	0.07	33.3	422
420	60	5050	30	151	11.12	0.06	33.4	424
427	61	5080	30	152	11.19	0.07	33.5	426
434	62	5110	30	153	11.26	0.07	33.6	427
441	63	5140	30	153	11.32	0.06	33.7	429
448	64	5170	30	154	11.39	0.07	33.9	430

KEY

(kg/g) – metric measurement

(lb/oz) – imperial measurement

NOTES

Body weights are those 4-6 hours after feeding.

This profile allows the male to reach sexual maturity by female first egg. Weekly body-weight gain beyond 28 weeks (196 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.

* Feed quantities are a guide only, based on recommended dietary energy levels of 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 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	0.4	0.4				
2	182	26	24.6	24.7	1.7	2.1	1.2	1.2	72.3	54.8
3	189	27	54.6	54.9	3.8	5.9	3.3	4.6	87.0	75.0
4	196	28	76.0	76.6	5.3	11.2	4.8	9.4	90.4	82.2
5	203	29	84.6	85.5	5.9	17.2	5.5	14.9	93.0	85.9
6	210	30	87.5	88.5	6.1	23.3	5.8	20.7	94.8	88.2
7	217	31	88.2	89.4	6.2	29.5	5.9	26.6	95.6	89.8
8	224	32	87.5	88.9	6.1	35.6	5.9	32.5	96.4	90.9
9	231	33	86.3	87.9	6.0	41.6	5.8	38.3	96.4	91.7
10	238	34	85.2	86.9	6.0	47.6	5.7	44.0	96.1	92.2
11	245	35	84.0	85.9	5.9	53.5	5.6	49.7	96.1	92.7
12	252	36	82.9	84.9	5.8	59.3	5.6	55.3	96.1	93.0
13	259	37	81.7	83.9	5.7	65.0	5.5	60.7	96.0	93.3
14	266	38	80.6	82.9	5.6	70.6	5.4	66.1	95.8	93.5
15	273	39	79.5	81.9	5.6	76.2	5.3	71.5	95.7	93.6
16	280	40	78.2	80.8	5.5	81.7	5.2	76.7	95.7	93.8
17	287	41	77.0	79.7	5.4	87.1	5.2	81.9	95.6	93.9
18	294	42	75.9	78.7	5.3	92.4	5.1	86.9	95.6	94.0
19	301	43	74.7	77.7	5.2	97.6	5.0	91.9	95.5	94.1
20	308	44	73.6	76.7	5.2	102.8	4.9	96.8	95.5	94.1
21	315	45	72.5	75.6	5.1	107.8	4.8	101.7	95.4	94.2
22	322	46	71.3	74.6	5.0	112.8	4.8	106.4	95.4	94.2
23	329	47	70.2	73.6	4.9	117.7	4.7	111.1	95.3	94.3
24	336	48	68.9	72.4	4.8	122.6	4.6	115.7	95.3	94.3
25	343	49	67.7	71.3	4.7	127.3	4.5	120.2	95.2	94.4
26	350	50	66.6	70.3	4.7	132.0	4.4	124.7	95.2	94.4
27	357	51	65.5	69.2	4.6	136.5	4.4	129.0	95.1	94.4
28	364	52	64.3	68.1	4.5	141.0	4.3	133.3	95.1	94.4
29	371	53	63.2	67.1	4.4	145.5	4.2	137.5	95.1	94.5
30	378	54	62.0	66.0	4.3	149.8	4.1	141.6	95.0	94.5
31	385	55	60.9	64.9	4.3	154.1	4.0	145.7	95.0	94.5
32	392	56	59.6	63.7	4.2	158.2	4.0	149.6	94.9	94.5
33	399	57	58.5	62.6	4.1	162.3	3.9	153.5	94.9	94.5
34	406	58	57.3	61.5	4.0	166.3	3.8	157.3	94.8	94.5
35	413	59	56.2	60.4	3.9	170.3	3.7	161.0	94.8	94.5
36	420	60	55.0	59.3	3.9	174.1	3.6	164.7	94.7	94.5
37	427	61	53.9	58.2	3.8	177.9	3.6	168.2	94.7	94.5
38	434	62	52.7	57.1	3.7	181.6	3.5	171.7	94.7	94.5
39	441	63	51.6	56.0	3.6	185.2	3.4	175.2	94.6	94.5
40	448	64	50.3	54.7	3.5	188.7	3.3	178.5	94.6	94.5

* Hen-week (%) is based on the assumption that cumulative 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	80.3	80.3	1.0	1.0
3	189	27	83.1	82.3	2.8	3.8
4	196	28	85.5	84.0	4.1	7.9
5	203	29	87.5	85.3	4.8	12.7
6	210	30	89.2	86.4	5.2	17.9
7	217	31	90.6	87.3	5.3	23.2
8	224	32	91.6	88.1	5.4	28.6
9	231	33	92.5	88.8	5.4	34.0
10	238	34	93.1	89.3	5.3	39.3
11	245	35	93.4	89.8	5.3	44.6
12	252	36	93.6	90.2	5.2	49.8
13	259	37	93.7	90.5	5.1	54.9
14	266	38	93.6	90.8	5.1	60.0
15	273	39	93.4	90.9	5.0	65.0
16	280	40	93.1	91.1	4.9	69.8
17	287	41	92.7	91.2	4.8	74.6
18	294	42	92.2	91.3	4.7	79.3
19	301	43	91.7	91.3	4.6	83.9
20	308	44	91.1	91.3	4.5	88.3
21	315	45	90.5	91.2	4.4	92.7
22	322	46	89.9	91.2	4.3	97.0
23	329	47	89.3	91.1	4.2	101.2
24	336	48	88.3	91.0	4.1	105.2
25	343	49	87.3	90.8	3.9	109.2
26	350	50	86.3	90.7	3.8	113.0
27	357	51	85.3	90.5	3.7	116.7
28	364	52	84.4	90.3	3.6	120.3
29	371	53	83.4	90.1	3.5	123.8
30	378	54	82.4	89.9	3.4	127.2
31	385	55	81.4	89.6	3.3	130.5
32	392	56	80.5	89.4	3.2	133.7
33	399	57	79.5	89.1	3.1	136.8
34	406	58	78.5	88.9	3.0	139.7
35	413	59	77.5	88.6	2.9	142.6
36	420	60	76.6	88.4	2.8	145.4
37	427	61	75.6	88.1	2.7	148.1
38	434	62	74.7	87.8	2.6	150.7
39	441	63	73.7	87.5	2.5	153.2
40	448	64	72.7	87.3	2.4	155.7

* Hatchability is based on an average egg age of three 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	49.4	3.9	20.9
2	182	26	24.7	51.5	12.7	21.8
3	189	27	54.9	52.9	29.0	22.4
4	196	28	76.6	54.1	41.4	22.9
5	203	29	85.5	55.2	47.1	23.4
6	210	30	88.5	56.2	49.7	23.8
7	217	31	89.4	57.0	50.9	24.1
8	224	32	88.9	57.6	51.2	24.4
9	231	33	87.9	58.1	51.0	24.6
10	238	34	86.9	58.6	50.9	24.8
11	245	35	85.9	59.1	50.8	25.0
12	252	36	84.9	59.6	50.6	25.2
13	259	37	83.9	60.0	50.3	25.4
14	266	38	82.9	60.4	50.1	25.6
15	273	39	81.9	60.9	49.9	25.8
16	280	40	80.8	61.3	49.5	26.0
17	287	41	79.7	61.7	49.2	26.1
18	294	42	78.7	62.1	48.9	26.3
19	301	43	77.7	62.4	48.5	26.4
20	308	44	76.7	62.8	48.1	26.6
21	315	45	75.6	63.2	47.8	26.8
22	322	46	74.6	63.6	47.4	26.9
23	329	47	73.6	63.9	47.0	27.1
24	336	48	72.4	64.3	46.5	27.2
25	343	49	71.3	64.5	46.0	27.3
26	350	50	70.3	65.0	45.7	27.5
27	357	51	69.2	65.2	45.1	27.6
28	364	52	68.1	65.6	44.7	27.8
29	371	53	67.1	65.8	44.1	27.9
30	378	54	66.0	66.1	43.6	28.0
31	385	55	64.9	66.4	43.1	28.1
32	392	56	63.7	66.7	42.5	28.2
33	399	57	62.6	67.0	41.9	28.4
34	406	58	61.5	67.2	41.3	28.5
35	413	59	60.4	67.6	40.8	28.6
36	420	60	59.3	67.8	40.2	28.7
37	427	61	58.2	67.9	39.5	28.7
38	434	62	57.1	68.1	38.9	28.8
39	441	63	56.0	68.2	38.2	28.9
40	448	64	54.7	68.3	37.3	28.9

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

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

Notes

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