



An Aviagen Brand

Arbor Acres Plus

Parent Stock Performance Objectives

2021

Fast Feathering



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Arbor Acres Plus - *fast feathering*

Introduction

This booklet contains the performance objectives for Arbor Acres® Plus (fast feathering) parent stock and should be used in conjunction with the **Arbor Acres Parent Stock Management Handbook** and the **Arbor Acres Plus 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 and imperial to reflect the global nature of this publication. *All imperial measurements are shown in blue.*

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 Arbor Acres stock, please contact your local Arbor Acres representative.

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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)	448	448
(weeks)	64	64
Total eggs (HHA)*	192.7	192.7
Hatching eggs (HHA)*	180.6	180.6
Chicks/female housed at 175 days (25 weeks)	156.5	156.5
% Hatchability	86.6	86.6
Age at 5% production (days)	175	175
(weeks)	25	25
% Peak production	89.6	89.6
Body weight at 175 days (25 weeks)**	2970-3090 g	6.5-6.8 lb
Body weight at depletion**	4100-4215 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)***	36.0 kg	79.4 lb
Feed/100 hatching eggs day old - 448 days (0-64 weeks)***	31.0 kg	68.3 lb

* 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	26	0.47	0.22	5.8	73
21	3	345	130	31	0.76	0.29	6.8	86
28	4	475	130	34	1.05	0.29	7.6	96
35	5	595	120	37	1.31	0.26	8.3	105
42	6	705	110	40	1.55	0.24	8.8	112
49	7	805	100	43	1.77	0.22	9.5	120
56	8	905	100	46	2.00	0.23	10.2	129
63	9	1005	100	50	2.22	0.22	10.9	139
70	10	1105	100	53	2.44	0.22	11.7	149
77	11	1205	100	57	2.66	0.22	12.5	158
84	12	1305	100	60	2.88	0.22	13.2	168
91	13	1405	100	64	3.10	0.22	14.0	178
98	14	1505	100	67	3.32	0.22	14.8	188
105	15	1605	100	71	3.54	0.22	15.7	199
112	16	1710	105	75	3.77	0.23	16.5	210
119	17	1820	110	80	4.01	0.24	17.6	223
126	18	1945	125	86	4.29	0.28	19.0	241
133	19	2095	150	92	4.62	0.33	20.2	257
140	20	2245	150	97	4.95	0.33	21.4	272
147	21	2400	155	102	5.29	0.34	22.4	284
154	22	2550	150	106	5.62	0.33	23.4	297
161	23	2700	150	110	5.95	0.33	24.2	308
168	24	2845	145	115	6.27	0.32	25.3	321
175	25	2970	125	127	6.55	0.28	27.9	354
182	26	3080	110	144	6.79	0.24	31.8	403
189	27	3180	100	158	7.01	0.22	34.8	442
196	28	3275	95	167	7.22	0.21	36.8	467
203	29	3365	90	167	7.42	0.20	36.8	467
210	30	3415	50	167	7.53	0.11	36.8	467
217	31	3460	45	167	7.63	0.10	36.8	467
224	32	3500	40	167	7.72	0.09	36.8	467
231	33	3545	45	167	7.82	0.10	36.8	467
238	34	3585	40	167	7.90	0.08	36.8	467
245	35	3615	30	167	7.97	0.07	36.8	467
252	36	3645	30	166	8.04	0.07	36.7	466
259	37	3670	25	166	8.09	0.05	36.6	465
266	38	3695	25	166	8.15	0.06	36.6	465
273	39	3720	25	166	8.20	0.05	36.5	463
280	40	3740	20	165	8.25	0.05	36.4	462
287	41	3760	20	165	8.29	0.04	36.3	462
294	42	3780	20	165	8.33	0.04	36.3	461
301	43	3800	20	164	8.38	0.05	36.2	460
308	44	3820	20	164	8.42	0.04	36.2	460
315	45	3840	20	164	8.47	0.05	36.1	459
322	46	3860	20	164	8.51	0.04	36.1	458
329	47	3880	20	163	8.55	0.04	36.0	457
336	48	3900	20	163	8.60	0.05	35.9	456
343	49	3920	20	163	8.64	0.04	35.8	455
350	50	3940	20	162	8.69	0.05	35.8	454
357	51	3960	20	162	8.73	0.04	35.6	452
364	52	3975	15	161	8.76	0.03	35.5	450
371	53	3990	15	160	8.80	0.04	35.3	448
378	54	4000	10	159	8.82	0.02	35.1	446
385	55	4010	10	159	8.84	0.02	35.0	444
392	56	4020	10	158	8.86	0.02	34.8	443
399	57	4030	10	158	8.88	0.02	34.7	441
406	58	4040	10	157	8.91	0.03	34.7	440
413	59	4050	10	157	8.93	0.02	34.6	439
420	60	4060	10	156	8.95	0.02	34.5	438
427	61	4070	10	156	8.97	0.02	34.4	437
434	62	4080	10	156	8.99	0.02	34.3	436
441	63	4090	10	155	9.02	0.03	34.3	435
448	64	4100	10	155	9.04	0.02	34.2	435

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	5.6	71
21	3	335	120	31	0.74	0.27	6.8	86
28	4	470	135	34	1.04	0.30	7.5	96
35	5	590	120	37	1.30	0.26	8.2	104
42	6	700	110	40	1.54	0.24	8.8	111
49	7	800	100	43	1.76	0.22	9.6	122
56	8	910	110	47	2.01	0.25	10.4	132
63	9	1020	110	51	2.25	0.24	11.2	142
70	10	1130	110	55	2.49	0.24	12.0	153
77	11	1240	110	58	2.73	0.24	12.7	161
84	12	1340	100	61	2.95	0.22	13.4	171
91	13	1440	100	64	3.17	0.22	14.2	180
98	14	1540	100	68	3.40	0.23	15.1	191
105	15	1650	110	74	3.64	0.24	16.2	206
112	16	1780	130	79	3.92	0.28	17.5	222
119	17	1920	140	84	4.23	0.31	18.6	236
126	18	2060	140	89	4.54	0.31	19.6	249
133	19	2200	140	93	4.85	0.31	20.5	260
140	20	2340	140	99	5.16	0.31	21.9	278
147	21	2505	165	105	5.52	0.36	23.2	295
154	22	2675	170	109	5.90	0.38	24.1	306
161	23	2825	150	112	6.23	0.33	24.8	315
168	24	2965	140	117	6.54	0.31	25.8	328
175	25	3090	125	129	6.81	0.27	28.4	360
182	26	3195	105	145	7.04	0.23	32.0	406
189	27	3280	85	159	7.23	0.19	35.1	446
196	28	3375	95	169	7.44	0.21	37.2	473
203	29	3460	85	169	7.63	0.19	37.2	473
210	30	3520	60	169	7.76	0.13	37.2	473
217	31	3570	50	169	7.87	0.11	37.2	473
224	32	3615	45	169	7.97	0.10	37.2	473
231	33	3660	45	169	8.07	0.10	37.2	473
238	34	3700	40	169	8.16	0.09	37.2	473
245	35	3730	30	169	8.22	0.06	37.2	473
252	36	3760	30	168	8.29	0.07	37.1	471
259	37	3785	25	168	8.34	0.05	37.1	471
266	38	3810	25	168	8.40	0.06	37.1	471
273	39	3835	25	167	8.45	0.05	36.9	469
280	40	3855	20	167	8.50	0.05	36.8	468
287	41	3875	20	167	8.54	0.04	36.8	467
294	42	3895	20	167	8.59	0.05	36.7	467
301	43	3915	20	166	8.63	0.04	36.7	466
308	44	3935	20	166	8.68	0.05	36.6	465
315	45	3955	20	166	8.72	0.04	36.6	464
322	46	3975	20	166	8.76	0.04	36.5	463
329	47	3995	20	165	8.81	0.05	36.4	462
336	48	4015	20	165	8.85	0.04	36.3	461
343	49	4035	20	164	8.90	0.05	36.3	460
350	50	4055	20	164	8.94	0.04	36.2	460
357	51	4075	20	163	8.98	0.04	36.0	457
364	52	4090	15	163	9.02	0.04	35.9	456
371	53	4105	15	162	9.05	0.03	35.7	453
378	54	4115	10	161	9.07	0.02	35.5	451
385	55	4125	10	160	9.09	0.02	35.4	449
392	56	4135	10	160	9.12	0.03	35.3	448
399	57	4145	10	159	9.14	0.02	35.1	446
406	58	4155	10	159	9.16	0.02	35.1	445
413	59	4165	10	159	9.18	0.02	35.0	444
420	60	4175	10	158	9.20	0.02	34.9	443
427	61	4185	10	158	9.23	0.03	34.8	442
434	62	4195	10	158	9.25	0.02	34.7	441
441	63	4205	10	157	9.27	0.02	34.7	441
448	64	4215	10	157	9.29	0.02	34.6	440

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	354	129	
10	367	131	2
15	372	133	2
20	378	135	2
25	386	138	3
30	395	141	3
35	403	144	3
40	412	147	3
45	423	151	4
50	434	155	4
55	445	159	4
65	456	163	4
>75	467	167	4

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	360	129	
10	367	131	2
15	372	133	2
20	378	135	2
25	386	138	3
30	395	141	3
35	403	144	3
40	412	147	3
45	423	151	4
50	434	155	4
55	445	159	4
65	459	164	5
>75	473	169	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	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	4775	25	145	10.52	0.06	32.1	407
364	52	4800	25	146	10.57	0.05	32.2	409
371	53	4825	25	147	10.63	0.06	32.4	411
378	54	4850	25	148	10.68	0.05	32.5	413
385	55	4875	25	148	10.74	0.06	32.7	415
392	56	4900	25	149	10.79	0.05	32.8	417
399	57	4925	25	150	10.85	0.06	33.0	419
406	58	4950	25	150	10.90	0.05	33.1	421
413	59	4975	25	151	10.96	0.06	33.3	422
420	60	5000	25	151	11.01	0.05	33.4	424
427	61	5025	25	152	11.07	0.06	33.5	426
434	62	5050	25	153	11.12	0.05	33.6	427
441	63	5075	25	153	11.18	0.06	33.7	429
448	64	5100	25	154	11.23	0.05	33.9	430

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 (0.05-0.07 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.

Arbor Acres Plus Parent Stock Performance Objectives

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	26.1	26.2	1.8	2.2	1.3	1.3	70.2	58.1
3	189	27	56.1	56.4	3.9	6.1	3.4	4.7	86.2	76.1
4	196	28	77.5	78.1	5.4	11.6	4.9	9.5	89.7	82.5
5	203	29	86.1	86.9	6.0	17.6	5.5	15.1	92.1	85.8
6	210	30	88.9	90.0	6.2	23.8	5.8	20.9	93.9	87.9
7	217	31	89.6	90.9	6.3	30.1	5.9	26.9	94.7	89.3
8	224	32	88.9	90.4	6.2	36.3	5.9	32.8	95.4	90.4
9	231	33	87.8	89.4	6.1	42.4	5.9	38.7	95.4	91.1
10	238	34	86.6	88.4	6.1	48.5	5.8	44.4	95.3	91.6
11	245	35	85.5	87.4	6.0	54.5	5.7	50.1	95.3	92.0
12	252	36	84.3	86.4	5.9	60.4	5.6	55.8	95.2	92.3
13	259	37	83.2	85.4	5.8	66.2	5.5	61.3	95.1	92.6
14	266	38	82.1	84.4	5.7	72.0	5.5	66.8	95.1	92.8
15	273	39	80.9	83.4	5.7	77.6	5.4	72.1	95.0	92.9
16	280	40	79.6	82.3	5.6	83.2	5.3	77.4	94.9	93.1
17	287	41	78.5	81.3	5.5	88.7	5.2	82.7	94.9	93.2
18	294	42	77.3	80.2	5.4	94.1	5.1	87.8	94.8	93.3
19	301	43	76.2	79.2	5.3	99.4	5.1	92.8	94.8	93.4
20	308	44	75.1	78.2	5.3	104.7	5.0	97.8	94.7	93.4
21	315	45	73.9	77.2	5.2	109.9	4.9	102.7	94.6	93.5
22	322	46	72.8	76.1	5.1	115.0	4.8	107.5	94.6	93.5
23	329	47	71.6	75.1	5.0	120.0	4.7	112.3	94.5	93.6
24	336	48	70.3	73.9	4.9	124.9	4.7	116.9	94.5	93.6
25	343	49	69.2	72.8	4.8	129.8	4.6	121.5	94.4	93.6
26	350	50	68.1	71.8	4.8	134.5	4.5	126.0	94.3	93.7
27	357	51	66.9	70.7	4.7	139.2	4.4	130.4	94.3	93.7
28	364	52	65.8	69.7	4.6	143.8	4.3	134.7	94.2	93.7
29	371	53	64.6	68.6	4.5	148.3	4.3	139.0	94.2	93.7
30	378	54	63.5	67.5	4.4	152.8	4.2	143.2	94.1	93.7
31	385	55	62.3	66.5	4.4	157.1	4.1	147.3	94.1	93.7
32	392	56	61.1	65.2	4.3	161.4	4.0	151.3	94.0	93.7
33	399	57	59.9	64.2	4.2	165.6	3.9	155.3	93.9	93.7
34	406	58	58.8	63.1	4.1	169.7	3.9	159.1	93.9	93.8
35	413	59	57.6	62.0	4.0	173.8	3.8	162.9	93.8	93.8
36	420	60	56.5	60.9	4.0	177.7	3.7	166.6	93.7	93.8
37	427	61	55.3	59.8	3.9	181.6	3.6	170.2	93.7	93.7
38	434	62	54.2	58.7	3.8	185.4	3.6	173.8	93.6	93.7
39	441	63	53.1	57.6	3.7	189.1	3.5	177.3	93.5	93.7
40	448	64	51.8	56.3	3.6	192.7	3.4	180.6	93.5	93.7

* 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	79.2	79.2	1.0	1.0
3	189	27	82.4	81.5	2.8	3.8
4	196	28	85.0	83.3	4.1	7.9
5	203	29	87.0	84.7	4.8	12.8
6	210	30	88.5	85.7	5.2	17.9
7	217	31	89.7	86.6	5.3	23.3
8	224	32	90.5	87.3	5.4	28.6
9	231	33	91.1	87.9	5.3	34.0
10	238	34	91.5	88.4	5.3	39.3
11	245	35	91.7	88.7	5.2	44.5
12	252	36	91.8	89.1	5.2	49.7
13	259	37	91.7	89.3	5.1	54.7
14	266	38	91.6	89.5	5.0	59.7
15	273	39	91.4	89.6	4.9	64.7
16	280	40	91.1	89.7	4.8	69.5
17	287	41	90.7	89.8	4.7	74.2
18	294	42	90.3	89.8	4.6	78.8
19	301	43	89.8	89.8	4.5	83.4
20	308	44	89.4	89.8	4.4	87.8
21	315	45	88.8	89.7	4.3	92.2
22	322	46	88.3	89.7	4.3	96.4
23	329	47	87.7	89.6	4.2	100.6
24	336	48	87.1	89.5	4.1	104.6
25	343	49	86.5	89.4	4.0	108.6
26	350	50	85.8	89.3	3.9	112.5
27	357	51	85.2	89.1	3.8	116.2
28	364	52	84.5	89.0	3.7	119.9
29	371	53	83.8	88.8	3.6	123.4
30	378	54	83.1	88.6	3.5	126.9
31	385	55	82.3	88.5	3.4	130.3
32	392	56	81.6	88.3	3.3	133.6
33	399	57	80.8	88.1	3.2	136.8
34	406	58	80.0	87.9	3.1	139.9
35	413	59	79.2	87.7	3.0	142.9
36	420	60	78.4	87.5	2.9	145.8
37	427	61	77.6	87.3	2.8	148.6
38	434	62	76.8	87.1	2.7	151.3
39	441	63	75.9	86.8	2.6	153.9
40	448	64	75.1	86.6	2.5	156.5

* 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 Weight (oz/dozen)	Egg Mass (g)*
1	175	25	5.4	49.2	20.8	2.7
2	182	26	26.2	51.1	21.6	13.4
3	189	27	56.4	52.6	22.3	29.7
4	196	28	78.1	53.8	22.8	42.0
5	203	29	86.9	54.9	23.2	47.7
6	210	30	90.0	55.8	23.6	50.2
7	217	31	90.9	56.6	24.0	51.5
8	224	32	90.4	57.3	24.3	51.8
9	231	33	89.4	57.9	24.5	51.8
10	238	34	88.4	58.5	24.8	51.7
11	245	35	87.4	59.0	25.0	51.6
12	252	36	86.4	59.6	25.2	51.5
13	259	37	85.4	60.1	25.4	51.3
14	266	38	84.4	60.6	25.7	51.2
15	273	39	83.4	61.1	25.9	51.0
16	280	40	82.3	61.6	26.1	50.7
17	287	41	81.3	62.1	26.3	50.5
18	294	42	80.2	62.5	26.5	50.1
19	301	43	79.2	63.0	26.7	49.9
20	308	44	78.2	63.4	26.8	49.6
21	315	45	77.2	63.9	27.0	49.3
22	322	46	76.1	64.3	27.2	48.9
23	329	47	75.1	64.7	27.4	48.6
24	336	48	73.9	65.1	27.6	48.1
25	343	49	72.8	65.4	27.7	47.6
26	350	50	71.8	65.8	27.9	47.2
27	357	51	70.7	66.1	28.0	46.8
28	364	52	69.7	66.4	28.1	46.3
29	371	53	68.6	66.6	28.2	45.7
30	378	54	67.5	66.9	28.3	45.2
31	385	55	66.5	67.1	28.4	44.6
32	392	56	65.2	67.4	28.5	44.0
33	399	57	64.2	67.6	28.6	43.4
34	406	58	63.1	67.8	28.7	42.8
35	413	59	62.0	68.1	28.8	42.2
36	420	60	60.9	68.3	28.9	41.6
37	427	61	59.8	68.5	29.0	40.9
38	434	62	58.7	68.7	29.1	40.3
39	441	63	57.6	68.9	29.2	39.7
40	448	64	56.3	69.1	29.2	38.9

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



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