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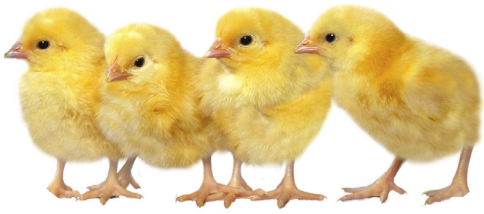
INDIAN RIVER FF

Parent Stock Performance Objectives



Fast Feathering

2016

INTRODUCTION

This booklet contains the performance objectives for Indian River FF parent stock (fast feathering) and should be used in conjunction with the **Indian River Parent Stock Management Handbook** and the **Indian River 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 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 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 conditions and when feeding the recommended nutrient levels. They 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 and imperial to reflect the global nature of this publication. All imperial measurements are shown in red.

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

For more information on the management of Indian River stock, please contact your local Indian River representative.

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PERFORMANCE SUMMARY

The figures outlined below are 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*)	187	187
Hatching Eggs (HHA*)	176	176
Chicks/female housed at 175 days (25 weeks)	153	153
Hatchability %	87.1	87.1
Age at 5% Production (days) (weeks)	175 25	175 25
Peak Production %	88.2	88.2
Body weight (g) at 175 days (25 weeks)	2970 g	6.55 lb
Body weight (g) at depletion	4090-4190 g	9.02-9.24 lb
Mortality + culls % (rearing period)	4-5	4-5
Mortality % (laying period)	8	8
Feed/100 Chicks (kg) day old - 448 days (0-64 weeks)**	36.5 kg	80.5 lb
Feed/100 Hatching Eggs (kg) day old - 448 days 0-64 weeks)**	31.8 kg	70.0 lb

NOTES

**Hen-Housed Average*

***Male feed allocations not included in this calculation.*

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

FEMALE BODY WEIGHT AND FEEDING PROGRAM: In-Season

Feed allowances are given as a guide. Birds should be fed the amount of feed required to achieve the body-weight target. Energy requirement is influenced by temperature, actual body weight, feathering and certain diseases. Feed allowance should be guided by body-weight development. Accurate records for body weight based on regular weighing of a representative random sample are therefore essential for successful female management.

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	24	0.25	0.16	5.2	66
14	2	215	100	28	0.47	0.22	6.3	80
21	3	340	125	32	0.75	0.28	7.0	89
28	4	455	115	35	1.00	0.25	7.8	99
35	5	565	110	38	1.24	0.24	8.5	108
42	6	665	100	41	1.46	0.22	9.1	115
49	7	765	100	45	1.69	0.23	9.8	125
56	8	865	100	48	1.91	0.22	10.6	134
63	9	965	100	50	2.13	0.22	11.0	140
70	10	1065	100	53	2.35	0.22	11.7	148
77	11	1165	100	57	2.57	0.22	12.5	158
84	12	1265	100	60	2.79	0.22	13.2	168
91	13	1365	100	63	3.01	0.22	14.0	178
98	14	1465	100	67	3.23	0.22	14.8	188
105	15	1565	100	71	3.45	0.22	15.6	198
112	16	1670	105	75	3.68	0.23	16.5	210
119	17	1780	110	79	3.92	0.24	17.5	222
126	18	1905	125	87	4.20	0.28	19.1	243
133	19	2055	150	93	4.53	0.33	20.4	259
140	20	2205	150	99	4.86	0.33	21.8	277
147	21	2360	155	106	5.20	0.34	23.2	296
154	22	2515	155	111	5.54	0.34	24.5	311
161	23	2675	160	116	5.89	0.35	25.5	325
168	24	2830	155	121	6.23	0.34	26.6	338
175	25	2970	140	127	6.54	0.31	28.0	357
182	26	3105	135	138	6.84	0.30	30.3	385
189	27	3230	125	151	7.11	0.27	33.2	422
196	28	3320	90	165	7.31	0.20	36.4	463
203	29	3395	75	165	7.48	0.17	36.4	463
210	30	3435	40	165	7.57	0.09	36.4	463
217	31	3470	35	165	7.64	0.07	36.4	463
224	32	3495	25	165	7.70	0.06	36.4	463
231	33	3520	25	165	7.75	0.05	36.4	463
238	34	3540	20	165	7.80	0.05	36.4	463
245	35	3560	20	165	7.84	0.04	36.3	462
252	36	3580	20	164	7.89	0.05	36.2	460
259	37	3600	20	164	7.93	0.04	36.1	459
266	38	3620	20	164	7.97	0.04	36.1	458
273	39	3640	20	163	8.02	0.05	36.0	457
280	40	3660	20	163	8.06	0.04	35.9	457
287	41	3680	20	163	8.11	0.05	35.9	456
294	42	3700	20	162	8.15	0.04	35.8	455
301	43	3720	20	162	8.19	0.04	35.7	454
308	44	3740	20	162	8.24	0.05	35.7	453
315	45	3760	20	162	8.28	0.04	35.6	452
322	46	3780	20	161	8.33	0.05	35.5	452
329	47	3800	20	161	8.37	0.04	35.5	451
336	48	3820	20	161	8.41	0.04	35.4	450
343	49	3840	20	160	8.46	0.05	35.3	449
350	50	3860	20	160	8.50	0.04	35.3	448
357	51	3880	20	160	8.55	0.05	35.2	447
364	52	3900	20	159	8.59	0.04	35.1	446
371	53	3920	20	159	8.63	0.04	35.1	446
378	54	3940	20	159	8.68	0.05	35.0	445
385	55	3960	20	159	8.72	0.04	34.9	444
392	56	3980	20	158	8.77	0.05	34.9	443
399	57	4000	20	158	8.81	0.04	34.8	442
406	58	4020	20	158	8.85	0.04	34.7	441
413	59	4040	20	157	8.90	0.05	34.7	441
420	60	4060	20	157	8.94	0.04	34.6	440
427	61	4080	20	157	8.99	0.05	34.5	439
434	62	4100	20	156	9.03	0.04	34.5	438
441	63	4120	20	156	9.07	0.04	34.4	437
448	64	4140	20	156	9.12	0.05	34.3	436

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 two 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 34 weeks (238 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 BODY WEIGHT AND FEEDING PROGRAM: Out-of-Season

Feed allowances are given as a guide. Birds should be fed the amount of feed required to achieve the body-weight target. Energy requirement is influenced by temperature, actual body weight, feathering and certain diseases. Feed allowance should be guided by body-weight development. Accurate records for body weight based on regular weighing of a representative random sample are therefore essential for successful female management.

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	23	0.25	0.16	5.1	64
14	2	215	100	28	0.47	0.22	6.2	79
21	3	330	115	32	0.73	0.26	7.0	89
28	4	450	120	35	0.99	0.26	7.8	99
35	5	560	110	39	1.23	0.24	8.6	109
42	6	660	100	42	1.45	0.22	9.2	117
49	7	760	100	46	1.67	0.22	10.0	128
56	8	870	110	49	1.92	0.25	10.8	137
63	9	980	110	51	2.16	0.24	11.3	144
70	10	1090	110	54	2.40	0.24	12.0	152
77	11	1200	110	58	2.64	0.24	12.8	163
84	12	1300	100	62	2.86	0.22	13.6	173
91	13	1400	100	66	3.08	0.22	14.5	184
98	14	1500	100	70	3.30	0.22	15.4	196
105	15	1610	110	74	3.55	0.25	16.3	207
112	16	1740	130	79	3.83	0.28	17.3	220
119	17	1880	140	83	4.14	0.31	18.3	233
126	18	2020	140	91	4.45	0.31	20.0	254
133	19	2160	140	96	4.76	0.31	21.2	269
140	20	2300	140	102	5.07	0.31	22.4	285
147	21	2465	165	107	5.43	0.36	23.7	301
154	22	2640	175	112	5.81	0.38	24.7	314
161	23	2800	160	117	6.17	0.36	25.7	326
168	24	2950	150	121	6.50	0.33	26.7	339
175	25	3090	140	128	6.81	0.31	28.2	359
182	26	3220	130	139	7.09	0.28	30.5	388
189	27	3330	110	152	7.33	0.24	33.5	426
196	28	3420	90	167	7.53	0.20	36.7	467
203	29	3490	70	167	7.69	0.16	36.7	467
210	30	3540	50	167	7.80	0.11	36.7	467
217	31	3580	40	167	7.89	0.09	36.7	467
224	32	3610	30	167	7.95	0.06	36.7	467
231	33	3635	25	167	8.01	0.06	36.7	467
238	34	3655	20	167	8.05	0.04	36.7	467
245	35	3675	20	166	8.09	0.04	36.7	466
252	36	3695	20	166	8.14	0.05	36.5	464
259	37	3715	20	165	8.18	0.04	36.4	463
266	38	3735	20	165	8.23	0.05	36.4	462
273	39	3755	20	165	8.27	0.04	36.3	461
280	40	3775	20	164	8.31	0.04	36.2	460
287	41	3795	20	164	8.36	0.05	36.2	460
294	42	3815	20	164	8.40	0.04	36.1	459
301	43	3835	20	164	8.45	0.05	36.0	458
308	44	3855	20	163	8.49	0.04	36.0	457
315	45	3875	20	163	8.54	0.04	35.9	456
322	46	3895	20	163	8.58	0.04	35.8	455
329	47	3915	20	162	8.62	0.04	35.8	455
336	48	3935	20	162	8.67	0.05	35.7	454
343	49	3955	20	162	8.71	0.04	35.6	453
350	50	3975	20	161	8.76	0.05	35.6	452
357	51	3995	20	161	8.80	0.04	35.5	451
364	52	4015	20	161	8.84	0.04	35.4	450
371	53	4035	20	160	8.89	0.05	35.4	449
378	54	4055	20	160	8.93	0.04	35.3	449
385	55	4075	20	160	8.98	0.05	35.2	448
392	56	4095	20	160	9.02	0.04	35.2	447
399	57	4115	20	159	9.06	0.04	35.1	446
406	58	4135	20	159	9.11	0.05	35.0	445
413	59	4155	20	159	9.15	0.04	34.9	444
420	60	4175	20	158	9.20	0.05	34.9	443
427	61	4195	20	158	9.24	0.04	34.8	443
434	62	4215	20	158	9.28	0.04	34.7	442
441	63	4235	20	157	9.33	0.05	34.7	441
448	64	4255	20	157	9.37	0.04	34.6	440

North of 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 two 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 34 weeks (238 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	357	128	
10	365	130	2
15	373	133	3
20	381	136	3
25	386	138	2
30	392	140	2
35	398	142	2
40	404	144	2
45	410	146	2
50	416	149	3
55	422	151	2
60	432	154	3
65	441	158	4
70	451	161	3
peak	463	165	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	359	128	
10	367	131	3
15	375	134	3
20	384	137	3
25	389	139	2
30	395	141	2
35	401	143	2
40	407	146	3
45	414	148	2
50	420	150	2
55	426	152	2
60	436	156	4
65	445	159	3
70	455	162	3
peak	467	167	5

*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)*	463
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	1008
Methionine & Cystine	991
Methionine	622
Threonine	823
Valine	941
Isoleucine	840
Argenine	1327
Tryptophan	235
Minerals (mg/bird/day)	
Calcium	5040
Available Phosphorus	588

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

MALE BODY WEIGHT AND FEEDING PROGRAM

Feed allowances are given as a guide. Birds should be fed the amount of feed required to achieve the body-weight target. Energy requirement is influenced by temperature, actual body weight, feathering and certain diseases. Feed allowance should be guided by body-weight development. Accurate records for body weight based on regular weighing of a representative random sample are therefore essential for successful male management.

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	145	105	34	0.32	0.23	7.6	96
14	2	310	165	42	0.68	0.36	9.2	117
21	3	515	205	48	1.13	0.45	10.5	133
28	4	745	230	52	1.64	0.51	11.5	146
35	5	935	190	56	2.06	0.42	12.4	157
42	6	1120	185	60	2.47	0.41	13.1	167
49	7	1270	150	63	2.80	0.33	13.8	176
56	8	1410	140	66	3.11	0.31	14.5	185
63	9	1535	125	69	3.38	0.27	15.2	193
70	10	1655	120	72	3.65	0.27	15.8	201
77	11	1780	125	75	3.92	0.27	16.4	209
84	12	1900	120	78	4.19	0.27	17.1	217
91	13	2015	115	81	4.44	0.25	17.8	226
98	14	2135	120	84	4.70	0.26	18.5	235
105	15	2260	125	87	4.98	0.28	19.2	244
112	16	2390	130	91	5.26	0.28	20.1	255
119	17	2530	140	96	5.57	0.31	21.1	268
126	18	2680	150	100	5.90	0.33	22.1	281
133	19	2835	155	106	6.24	0.34	23.3	296
140	20	3000	165	111	6.61	0.37	24.4	310
147	21	3165	165	115	6.97	0.36	25.4	323
154	22	3340	175	120	7.36	0.39	26.3	335
161	23	3520	180	123	7.75	0.39	27.2	345
168	24	3700	180	126	8.15	0.40	27.8	354
175	25	3830	130	133	8.44	0.29	29.4	360
182	26	3920	90	135	8.63	0.19	29.8	365
189	27	3990	70	137	8.79	0.16	30.1	369
196	28	4055	65	138	8.93	0.14	30.4	373
203	29	4080	25	139	8.99	0.06	30.7	376
210	30	4110	30	140	9.05	0.06	30.9	378
217	31	4140	30	141	9.12	0.07	31.1	381
224	32	4170	30	142	9.19	0.07	31.2	383
231	33	4200	30	142	9.25	0.06	31.4	385
238	34	4230	30	143	9.32	0.07	31.5	386
245	35	4260	30	144	9.38	0.06	31.6	388
252	36	4290	30	144	9.45	0.07	31.8	389
259	37	4320	30	145	9.52	0.07	31.9	391
266	38	4350	30	145	9.58	0.06	32.0	392
273	39	4380	30	146	9.65	0.07	32.1	394
280	40	4410	30	146	9.71	0.06	32.2	395
287	41	4440	30	147	9.78	0.07	32.4	397
294	42	4470	30	147	9.85	0.07	32.5	398
301	43	4500	30	148	9.91	0.06	32.6	399
308	44	4530	30	148	9.98	0.07	32.7	401
315	45	4560	30	149	10.04	0.06	32.8	402
322	46	4590	30	149	10.11	0.07	32.9	403
329	47	4620	30	150	10.18	0.07	33.0	405
336	48	4650	30	150	10.24	0.06	33.1	406
343	49	4680	30	151	10.31	0.07	33.2	407
350	50	4710	30	151	10.37	0.06	33.3	408
357	51	4740	30	152	10.44	0.07	33.4	410
364	52	4770	30	152	10.51	0.07	33.5	411
371	53	4800	30	153	10.57	0.06	33.6	412
378	54	4830	30	153	10.64	0.07	33.7	414
385	55	4860	30	154	10.70	0.06	33.8	415
392	56	4890	30	154	10.77	0.07	33.9	416
399	57	4920	30	155	10.84	0.07	34.1	417
406	58	4950	30	155	10.90	0.06	34.2	419
413	59	4980	30	156	10.97	0.07	34.3	420
420	60	5010	30	156	11.04	0.07	34.4	421
427	61	5040	30	156	11.10	0.06	34.5	423
434	62	5070	30	157	11.17	0.07	34.6	424
441	63	5100	30	157	11.23	0.06	34.7	425
448	64	5130	30	158	11.30	0.07	34.8	426

*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

Weekly body-weight gain beyond 30 weeks (210 days) should average approximately 30 grams (0.06-0.07 lb). This profile allows the male to reach sexual maturity by first egg. 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; actual feed levels will depend on the energy value of individual rations. The feed allowance should increase in the lay period and never decrease.

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

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	6.7	6.7	0.47	0.47				
2	182	26	23.1	23.2	1.62	2.08	1.08	1.08	66.87	51.92
3	189	27	53.5	53.8	3.75	5.83	3.20	4.28	85.45	73.48
4	196	28	74.8	75.4	5.24	11.06	4.70	8.98	89.78	81.19
5	203	29	83.8	84.6	5.87	16.93	5.43	14.41	92.58	85.14
6	210	30	87.5	88.6	6.13	23.05	5.78	20.19	94.37	87.59
7	217	31	88.2	89.5	6.18	29.23	5.88	26.07	95.22	89.20
8	224	32	87.4	88.8	6.12	35.34	5.88	31.95	96.16	90.41
9	231	33	86.1	87.6	6.03	41.37	5.78	37.73	95.93	91.21
10	238	34	84.8	86.5	5.94	47.30	5.69	43.42	95.95	91.80
11	245	35	83.5	85.4	5.85	53.15	5.61	49.03	95.98	92.26
12	252	36	82.4	84.4	5.77	58.91	5.53	54.56	95.89	92.61
13	259	37	81.2	83.4	5.69	64.60	5.45	60.00	95.80	92.89
14	266	38	79.8	82.1	5.59	70.18	5.35	65.35	95.71	93.12
15	273	39	78.6	81.1	5.51	75.69	5.26	70.61	95.62	93.30
16	280	40	77.5	80.1	5.43	81.11	5.18	75.80	95.53	93.45
17	287	41	76.4	79.0	5.35	86.46	5.10	80.90	95.44	93.57
18	294	42	75.2	78.0	5.27	91.72	5.02	85.92	95.35	93.67
19	301	43	73.8	76.7	5.17	96.89	4.92	90.84	95.25	93.76
20	308	44	72.8	75.8	5.10	101.98	4.85	95.69	95.16	93.83
21	315	45	71.5	74.6	5.01	106.99	4.76	100.44	95.07	93.89
22	322	46	70.5	73.7	4.94	111.92	4.69	105.13	94.98	93.93
23	329	47	69.2	72.6	4.85	116.77	4.60	109.73	94.88	93.97
24	336	48	68.1	71.5	4.77	121.53	4.52	114.24	94.78	94.01
25	343	49	66.8	70.3	4.68	126.21	4.43	118.67	94.68	94.03
26	350	50	65.8	69.4	4.61	130.81	4.36	123.03	94.59	94.05
27	357	51	64.5	68.2	4.52	135.33	4.27	127.29	94.49	94.06
28	364	52	63.4	67.1	4.44	139.76	4.19	131.48	94.39	94.08
29	371	53	62.2	66.0	4.36	144.12	4.11	135.59	94.29	94.08
30	378	54	61.2	65.1	4.29	148.40	4.04	139.62	94.19	94.08
31	385	55	59.8	63.7	4.19	152.59	3.94	143.56	94.08	94.08
32	392	56	58.8	62.8	4.12	156.70	3.87	147.43	93.98	94.08
33	399	57	57.6	61.7	4.04	160.74	3.79	151.21	93.88	94.08
34	406	58	56.5	60.6	3.96	164.69	3.71	154.92	93.77	94.07
35	413	59	55.4	59.5	3.88	168.57	3.63	158.55	93.67	94.06
36	420	60	54.2	58.4	3.80	172.36	3.55	162.10	93.56	94.05
37	427	61	53.2	57.5	3.73	176.09	3.48	165.58	93.45	94.04
38	434	62	52.1	56.4	3.65	179.73	3.40	168.99	93.34	94.02
39	441	63	50.8	55.1	3.56	183.29	3.31	172.30	93.22	94.01
40	448	64	49.8	54.1	3.49	186.77	3.25	175.55	93.25	93.99

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/doz) 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	76.7	76.7	0.83	0.83
3	189	27	81.0	79.9	2.59	3.42
4	196	28	83.6	81.8	3.93	7.35
5	203	29	85.7	83.3	4.65	12.00
6	210	30	87.5	84.5	5.06	17.06
7	217	31	88.8	85.5	5.22	22.28
8	224	32	89.8	86.3	5.28	27.57
9	231	33	90.6	86.9	5.24	32.80
10	238	34	91.1	87.5	5.19	37.99
11	245	35	91.5	88.0	5.14	43.13
12	252	36	91.7	88.3	5.07	48.20
13	259	37	91.9	88.7	5.01	53.20
14	266	38	92.0	88.9	4.92	58.12
15	273	39	91.9	89.2	4.84	62.96
16	280	40	91.8	89.3	4.76	67.72
17	287	41	91.7	89.5	4.68	72.40
18	294	42	91.6	89.6	4.60	76.99
19	301	43	91.3	89.7	4.49	81.49
20	308	44	90.9	89.8	4.41	85.89
21	315	45	90.5	89.8	4.30	90.20
22	322	46	90.1	89.8	4.22	94.42
23	329	47	89.6	89.8	4.12	98.54
24	336	48	88.7	89.8	4.01	102.54
25	343	49	87.9	89.7	3.89	106.44
26	350	50	87.1	89.6	3.80	110.23
27	357	51	86.2	89.5	3.68	113.91
28	364	52	85.4	89.4	3.58	117.49
29	371	53	84.6	89.2	3.48	120.96
30	378	54	83.7	89.1	3.38	124.34
31	385	55	82.9	88.9	3.26	127.60
32	392	56	82.1	88.7	3.17	130.78
33	399	57	81.3	88.5	3.08	133.86
34	406	58	80.5	88.3	2.99	136.84
35	413	59	79.6	88.1	2.89	139.73
36	420	60	78.7	87.9	2.80	142.53
37	427	61	77.9	87.7	2.71	145.24
38	434	62	77.1	87.5	2.62	147.86
39	441	63	76.3	87.3	2.53	150.39
40	448	64	75.7	87.1	2.46	152.85

NOTE

**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 Weight (oz/doz)	Egg Mass* (g)
1	175	25	6.7	48.4	20.5	3.2
2	182	26	24.3	50.7	21.4	12.3
3	189	27	55.0	51.9	22.0	28.5
4	196	28	76.5	52.7	22.3	40.3
5	203	29	85.8	53.6	22.7	46.0
6	210	30	89.7	54.4	23.0	48.8
7	217	31	90.6	55.0	23.3	49.9
8	224	32	89.9	55.5	23.5	49.9
9	231	33	88.8	55.9	23.6	49.6
10	238	34	87.7	56.3	23.8	49.3
11	245	35	86.5	56.7	24.0	49.1
12	252	36	85.5	57.2	24.2	48.9
13	259	37	84.5	57.6	24.4	48.7
14	266	38	83.2	58.0	24.5	48.3
15	273	39	82.2	58.6	24.8	48.2
16	280	40	81.2	59.0	25.0	47.9
17	287	41	80.2	59.5	25.2	47.7
18	294	42	79.2	59.9	25.3	47.4
19	301	43	77.9	60.2	25.5	46.9
20	308	44	77.0	60.6	25.6	46.7
21	315	45	75.8	61.1	25.9	46.3
22	322	46	74.9	61.5	26.0	46.1
23	329	47	73.7	61.8	26.1	45.6
24	336	48	72.7	62.2	26.3	45.2
25	343	49	71.5	62.3	26.4	44.6
26	350	50	70.6	62.9	26.6	44.4
27	357	51	69.4	63.0	26.7	43.7
28	364	52	68.3	63.4	26.8	43.3
29	371	53	67.2	63.5	26.9	42.7
30	378	54	66.3	63.8	27.0	42.3
31	385	55	64.9	64.1	27.1	41.6
32	392	56	64.0	64.4	27.3	41.2
33	399	57	62.9	64.7	27.4	40.7
34	406	58	61.8	64.9	27.5	40.1
35	413	59	60.7	65.5	27.7	39.8
36	420	60	59.6	65.7	27.8	39.2
37	427	61	58.7	65.8	27.8	38.6
38	434	62	57.6	66.1	28.0	38.1
39	441	63	56.3	66.2	28.0	37.3
40	448	64	55.3	66.3	28.0	36.7

NOTE

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

NOTES

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