



# Rowan 708 Parent Stock

PERFORMANCE OBJECTIVES

2018



An Aviagen Brand



## Introduction

This booklet contains the performance objectives for Rowan 708™ parent stock and should be used in conjunction with the **Parent Stock Management Handbook** supplied by Aviagen®.

## Performance

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

The performance objectives given here 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 advantages in early egg size, chick number and broiler chick quality.

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. 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. The information given in this booklet should therefore be regarded as 'Performance Objectives' and not specifications.

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 Rowan 708 parent stock, please contact your local Aviagen representative.

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## Performance Summary

Global Rowan 708 breeder performance objectives 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 (HH*)	173.1	173.1
Hatching Eggs (HH*)	167.3	167.3
Chicks/female housed at 161 days (23 weeks)	143.5	143.5
Hatchability %	85.8	85.8
Age at 5% Production (days)	175	175
(weeks)	25	25
Peak Production %	82.4	82.4
Body weight at 161 days (23 weeks)	2690 g	5.93 lb
Body weight at depletion	3825-3925 g	8.43-8.65 lb
Liveability % (rearing period)	95-96	95-96
Liveability % (laying period)	92	92
Feed/100 Chicks** day old -434 days (0-62 weeks)	38.6 kg	81.1 lb
Feed/100 Hatching Eggs** day old -434 days (0-62 weeks)	30.5 kg	67.2 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.



# Rowan 708 Parent Stock Performance Objectives

## 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	37		ad lib	0.08		ad lib	ad lib
7	1	138	101	30	0.30	0.22	6.7	85
14	2	285	147	40	0.63	0.32	8.7	111
21	3	465	180	47	1.03	0.40	10.4	132
28	4	663	198	50	1.46	0.44	11.0	139
35	5	828	165	53	1.83	0.36	11.7	149
42	6	989	161	57	2.18	0.35	12.6	160
49	7	1132	143	59	2.50	0.32	13.1	166
56	8	1265	133	62	2.79	0.29	13.6	173
63	9	1389	124	64	3.06	0.27	14.2	180
70	10	1508	119	66	3.32	0.26	14.6	186
77	11	1628	120	69	3.59	0.26	15.2	193
84	12	1748	120	70	3.85	0.26	15.5	197
91	13	1867	119	73	4.12	0.26	16.1	204
98	14	1987	120	75	4.38	0.26	16.5	209
105	15	2106	119	78	4.64	0.26	17.2	218
112	16	2235	129	80	4.93	0.28	17.6	224
119	17	2369	134	82	5.22	0.30	18.0	228
126	18	2507	138	83	5.53	0.30	18.3	233
133	19	2650	143	85	5.84	0.32	18.8	238
140	20	2792	142	87	6.16	0.31	19.1	243
147	21	2939	147	90	6.48	0.32	19.8	252
154	22	3078	139	95	6.79	0.31	20.9	256
161	23	3211	133	97	7.08	0.29	21.4	262
168	24	3340	129	100	7.36	0.28	22.0	269
175	25	3450	110	102	7.61	0.24	22.5	276
182	26	3551	101	104	7.83	0.22	23.0	282
189	27	3638	87	107	8.02	0.19	23.5	288
196	28	3708	70	108	8.17	0.15	23.7	290
203	29	3767	59	109	8.30	0.13	24.0	294
210	30	3806	39	111	8.39	0.09	24.4	299
217	31	3827	21	112	8.44	0.05	24.8	303
224	32	3847	20	114	8.48	0.04	25.2	309
231	33	3867	20	116	8.53	0.04	25.5	312
238	34	3887	20	117	8.57	0.04	25.7	315
245	35	3907	20	118	8.61	0.04	26.0	318
252	36	3927	20	119	8.66	0.05	26.3	322
259	37	3947	20	120	8.70	0.04	26.5	324
266	38	3967	20	121	8.75	0.04	26.7	326
273	39	3987	20	123	8.79	0.04	27.0	331
280	40	4007	20	123	8.83	0.04	27.2	333
287	41	4027	20	125	8.88	0.04	27.5	337
294	42	4047	20	126	8.92	0.04	27.7	339
301	43	4067	20	126	8.97	0.04	27.9	341
308	44	4087	20	127	9.01	0.04	28.1	344
315	45	4107	20	128	9.05	0.04	28.3	346
322	46	4131	24	130	9.11	0.05	28.6	350
329	47	4155	24	131	9.16	0.05	28.8	353
336	48	4179	24	132	9.21	0.05	29.0	355
343	49	4203	24	133	9.27	0.05	29.2	358
350	50	4227	24	133	9.32	0.05	29.4	360
357	51	4251	24	134	9.37	0.05	29.6	363
364	52	4275	24	135	9.42	0.05	29.8	365
371	53	4299	24	136	9.48	0.05	30.0	367
378	54	4323	24	137	9.53	0.05	30.1	369
385	55	4347	24	137	9.58	0.05	30.3	371
392	56	4371	24	138	9.64	0.05	30.4	373
399	57	4395	24	139	9.69	0.05	30.6	374
406	58	4419	24	139	9.74	0.05	30.7	376
413	59	4443	24	140	9.80	0.05	30.8	377
420	60	4467	24	140	9.85	0.05	30.9	379
427	61	4491	24	141	9.90	0.05	31.0	380
434	62	4515	24	141	9.95	0.05	31.1	381
441	63	4539	24	142	10.01	0.05	31.3	383
448	64	4563	24	142	10.06	0.05	31.4	384

### 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 first egg. Weekly body-weight gain beyond 31 weeks (217 days) should average approximately 20-24 g (0.04-0.05 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 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); refer to the Rowan 708 Parent Stock Nutrition Specifications for more information. Adjustments must be made to reflect feeding differing energy levels.



# Rowan 708 Parent Stock Performance Objectives

## Female 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	110	70	24	0.24	0.15	5.20	66
14	2	215	105	27	0.47	0.23	6.00	76
21	3	310	95	30	0.68	0.21	6.70	85
28	4	400	90	33	0.88	0.20	7.20	91
35	5	490	90	35	1.08	0.20	7.60	97
42	6	580	90	37	1.28	0.20	8.20	104
49	7	670	90	40	1.48	0.20	8.70	111
56	8	760	90	42	1.68	0.20	9.30	118
63	9	850	90	44	1.87	0.20	9.80	124
70	10	940	90	46	2.07	0.20	10.20	130
77	11	1030	90	49	2.27	0.20	10.90	138
84	12	1120	90	52	2.47	0.20	11.50	146
91	13	1210	90	56	2.67	0.20	12.30	156
98	14	1300	90	59	2.87	0.20	12.90	164
105	15	1390	90	62	3.06	0.20	13.60	173
112	16	1480	90	66	3.26	0.20	14.60	185
119	17	1585	105	71	3.49	0.23	15.60	198
126	18	1700	115	76	3.75	0.25	16.70	212
133	19	1825	125	81	4.02	0.28	17.90	227
140	20	1960	135	86	4.32	0.30	19.00	242
147	21	2100	140	92	4.63	0.31	20.40	259
154	22	2245	145	98	4.95	0.32	21.60	274
161	23	2395	150	104	5.28	0.33	22.90	291
168	24	2545	150	110	5.61	0.33	24.30	308
175	25	2690	145	118	5.93	0.32	26.00	331
182	26	2825	135	130	6.23	0.30	28.60	364
189	27	2955	130	145	6.51	0.29	31.90	406
196	28	3055	100	159	6.74	0.22	34.90	444
203	29	3145	90	159	6.93	0.20	34.90	444
210	30	3230	85	159	7.12	0.19	34.90	444
217	31	3285	55	159	7.24	0.12	34.90	444
224	32	3330	45	159	7.34	0.10	34.90	444
231	33	3370	40	159	7.43	0.09	34.90	444
238	34	3400	30	159	7.50	0.07	34.90	444
245	35	3430	30	159	7.56	0.07	34.90	444
252	36	3450	20	158	7.61	0.04	34.90	443
259	37	3470	20	158	7.65	0.04	34.80	442
266	38	3485	15	158	7.68	0.03	34.70	441
273	39	3500	15	157	7.72	0.03	34.60	440
280	40	3515	15	157	7.75	0.03	34.60	440
287	41	3530	15	157	7.78	0.03	34.50	439
294	42	3545	15	156	7.82	0.03	34.40	438
301	43	3560	15	156	7.85	0.03	34.40	437
308	44	3575	15	156	7.88	0.03	34.30	436
315	45	3590	15	155	7.91	0.03	34.20	435
322	46	3605	15	155	7.95	0.03	34.10	434
329	47	3620	15	155	7.98	0.03	34.10	433
336	48	3635	15	154	8.01	0.03	34.00	432
343	49	3650	15	154	8.05	0.03	33.90	431
350	50	3665	15	154	8.08	0.03	33.90	431
357	51	3680	15	153	8.11	0.03	33.80	430
364	52	3695	15	153	8.15	0.03	33.70	429
371	53	3710	15	153	8.18	0.03	33.70	428
378	54	3725	15	152	8.21	0.03	33.60	427
385	55	3740	15	152	8.25	0.03	33.50	426
392	56	3755	15	152	8.28	0.03	33.40	425
399	57	3770	15	152	8.31	0.03	33.40	424
406	58	3785	15	151	8.34	0.03	33.30	423
413	59	3800	15	151	8.38	0.03	33.20	422
420	60	3815	15	151	8.41	0.03	33.20	422
427	61	3830	15	150	8.44	0.03	33.10	421
434	62	3845	15	150	8.48	0.03	33.00	420
441	63	3860	15	150	8.51	0.03	32.90	419
448	64	3875	15	149	8.54	0.03	32.90	418

### KEY

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

### NOTES

Body weights are those 4-6 hours after feeding.

Weekly body-weight gain beyond 38 weeks (266 days) should average approximately 15 g (0.03 lb).

\*Feed quantities are 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); refer to the Rowan 708 Parent Stock Nutrition Specifications for more information. Adjustments must be made to reflect feeding differing energy levels.



## Female Feeding into Lay

The '*Feeding into Lay*' recommendations for the Ranger female are currently under review.

For further information please contact your local Aviagen representative.



## Female Nutrient Allocation at Peak

Nutrient	Nutrient Allocation at Peak
Energy (kcal/bird/day)	444
<b>Digestible Amino Acids (mg/bird/day)*</b>	
Lysine	954
Methionine & Cystine	938
Methionine	588
Threonine	779
Valine	890
Isoleucine	795
Argenine	1256
Tryptophan	223
<b>Minerals (mg/bird/day)</b>	
Calcium	4770
Available Phosphorus	557

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



# Rowan 708 Parent Stock Performance Objectives

## Weekly Egg Production

Week of production	Age (days)	Age (weeks)	Hen-housed (%)	Hen-week* (%)	Eggs/bird/ week	Eggs/bird/ week cum.	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	18.9	18.9	1.3	1.7	0.9	0.9	69.7	54.1
3	189	27	48.9	49.2	3.4	5.1	3.0	3.9	88.3	77.0
4	196	28	70.3	70.9	4.9	10.0	4.5	8.5	91.9	84.3
5	203	29	78.9	79.7	5.5	15.6	5.2	13.7	94.6	87.9
6	210	30	81.7	82.7	5.7	21.3	5.5	19.2	96.5	90.2
7	217	31	82.4	83.6	5.8	27.1	5.6	24.8	97.4	91.8
8	224	32	81.7	83.0	5.7	32.8	5.6	30.4	98.3	92.9
9	231	33	80.6	82.0	5.6	38.4	5.5	36.0	98.2	93.7
10	238	34	79.4	81.0	5.6	44.0	5.5	41.4	98.2	94.2
11	245	35	78.3	80.0	5.5	49.5	5.4	46.8	98.1	94.7
12	252	36	77.1	79.0	5.4	54.9	5.3	52.1	98.1	95.0
13	259	37	76.0	78.0	5.3	60.2	5.2	57.3	98.0	95.3
14	266	38	74.9	77.0	5.2	65.4	5.1	62.5	98.0	95.5
15	273	39	73.7	76.0	5.2	70.6	5.1	67.5	97.9	95.7
16	280	40	72.4	74.8	5.1	75.6	5.0	72.5	97.9	95.8
17	287	41	71.3	73.8	5.0	80.6	4.9	77.4	97.8	95.9
18	294	42	70.1	72.8	4.9	85.5	4.8	82.2	97.8	96.1
19	301	43	69.0	71.7	4.8	90.4	4.7	86.9	97.7	96.1
20	308	44	67.9	70.7	4.8	95.1	4.6	91.5	97.7	96.2
21	315	45	66.7	69.6	4.7	99.8	4.6	96.1	97.6	96.3
22	322	46	65.6	68.6	4.6	104.4	4.5	100.6	97.6	96.3
23	329	47	64.4	67.5	4.5	108.9	4.4	105.0	97.5	96.4
24	336	48	63.1	66.3	4.4	113.3	4.3	109.3	97.5	96.4
25	343	49	62.0	65.3	4.3	117.7	4.2	113.5	97.4	96.5
26	350	50	60.9	64.2	4.3	121.9	4.2	117.6	97.4	96.5
27	357	51	59.7	63.1	4.2	126.1	4.1	121.7	97.3	96.5
28	364	52	58.6	62.0	4.1	130.2	4.0	125.7	97.3	96.6
29	371	53	57.4	61.0	4.0	134.2	3.9	129.6	97.2	96.6
30	378	54	56.3	59.9	3.9	138.2	3.8	133.4	97.2	96.6
31	385	55	55.1	58.8	3.9	142.0	3.8	137.2	97.1	96.6
32	392	56	53.9	57.5	3.8	145.8	3.7	140.9	97.1	96.6
33	399	57	52.7	56.4	3.7	149.5	3.6	144.4	97.0	96.6
34	406	58	51.6	55.3	3.6	153.1	3.5	147.9	97.0	96.6
35	413	59	50.4	54.2	3.5	156.6	3.4	151.4	96.9	96.6
36	420	60	49.3	53.1	3.5	160.1	3.3	154.7	96.9	96.7
37	427	61	48.1	52.0	3.4	163.4	3.3	158.0	96.8	96.7
38	434	62	47.0	50.9	3.3	166.7	3.2	161.2	96.8	96.7
39	441	63	45.9	49.7	3.2	169.9	3.1	164.3	96.8	96.7
40	448	64	44.6	48.4	3.1	173.1	3.0	167.3	96.8	96.7

### NOTES

\* Hen-week (%) is based on the assumption that liveability in lay is 92%.

\*\* A hatching egg is considered to be an egg which is 50 g (21.6 oz/dozen) or heavier.



# Rowan 708 Parent Stock Performance Objectives

## 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	79.6	79.6	0.7	0.7
3	189	27	81.9	81.4	2.5	3.2
4	196	28	84.0	82.7	3.8	7.0
5	203	29	86.0	84.0	4.5	11.5
6	210	30	87.7	85.1	4.8	16.3
7	217	31	88.8	85.9	5.0	21.3
8	224	32	89.8	86.6	5.1	26.4
9	231	33	90.6	87.3	5.0	31.4
10	238	34	91.1	87.8	5.0	36.4
11	245	35	91.5	88.2	4.9	41.3
12	252	36	91.7	88.6	4.9	46.2
13	259	37	91.8	88.9	4.8	50.9
14	266	38	91.8	89.1	4.7	55.7
15	273	39	91.6	89.3	4.6	60.3
16	280	40	91.3	89.4	4.5	64.8
17	287	41	91.1	89.5	4.5	69.3
18	294	42	90.7	89.6	4.4	73.6
19	301	43	90.3	89.7	4.3	77.9
20	308	44	89.7	89.7	4.2	82.0
21	315	45	89.1	89.6	4.1	86.1
22	322	46	88.5	89.6	4.0	90.1
23	329	47	87.9	89.5	3.9	93.9
24	336	48	86.9	89.4	3.7	97.7
25	343	49	85.9	89.3	3.6	101.3
26	350	50	85.0	89.1	3.5	104.8
27	357	51	84.0	89.0	3.4	108.3
28	364	52	83.0	88.8	3.3	111.6
29	371	53	82.0	88.5	3.2	114.8
30	378	54	81.0	88.3	3.1	117.9
31	385	55	80.1	88.0	3.0	120.9
32	392	56	79.1	87.9	2.9	123.8
33	399	57	78.0	87.6	2.8	126.6
34	406	58	77.0	87.4	2.7	129.3
35	413	59	76.0	87.1	2.6	131.9
36	420	60	74.9	86.9	2.5	134.4
37	427	61	73.9	86.6	2.4	136.8
38	434	62	73.0	86.3	2.3	139.1
39	441	63	71.7	86.0	2.2	141.3
40	448	64	70.4	85.8	2.1	143.5

### NOTES

\* Hatchability is based on an average egg age of 3 days. Hatchability will drop by 0.5% per day between 7 and 14 days of egg storage and 1% per day between 14 and 21 days of egg storage. It is recommended to store eggs at 15°C (59°F).





# Rowan 708 Parent Stock Performance Objectives

## 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	49.4	2.7	20.9
2	182	26	18.9	51.2	9.7	21.7
3	189	27	49.2	52.8	26.0	22.3
4	196	28	70.9	54.6	38.7	23.1
5	203	29	79.7	55.7	44.4	23.6
6	210	30	82.7	57.0	47.1	24.1
7	217	31	83.6	58.1	48.6	24.6
8	224	32	83.0	58.9	48.9	24.9
9	231	33	82.0	59.7	49.0	25.3
10	238	34	81.0	60.4	48.9	25.6
11	245	35	80.0	60.9	48.7	25.8
12	252	36	79.0	61.4	48.5	26.0
13	259	37	78.0	61.9	48.3	26.2
14	266	38	77.0	62.3	48.0	26.4
15	273	39	76.0	62.7	47.7	26.5
16	280	40	74.8	63.0	47.1	26.7
17	287	41	73.8	63.4	46.8	26.8
18	294	42	72.8	63.7	46.4	27.0
19	301	43	71.7	64.1	46.0	27.1
20	308	44	70.7	64.4	45.5	27.3
21	315	45	69.6	64.8	45.1	27.4
22	322	46	68.6	65.1	44.7	27.6
23	329	47	67.5	65.4	44.1	27.7
24	336	48	66.3	65.8	43.6	27.8
25	343	49	65.3	66.1	43.2	28.0
26	350	50	64.2	66.5	42.7	28.1
27	357	51	63.1	66.8	42.2	28.3
28	364	52	62.0	67.2	41.7	28.4
29	371	53	61.0	67.5	41.2	28.6
30	378	54	59.9	67.8	40.6	28.7
31	385	55	58.8	68.1	40.0	28.8
32	392	56	57.5	68.4	39.3	28.9
33	399	57	56.4	68.7	38.7	29.1
34	406	58	55.3	68.9	38.1	29.2
35	413	59	54.2	69.1	37.5	29.2
36	420	60	53.1	69.3	36.8	29.3
37	427	61	52.0	69.4	36.1	29.4
38	434	62	50.9	69.5	35.4	29.4
39	441	62	49.7	69.6	34.6	29.5
40	448	64	48.4	69.7	33.7	29.5

### KEY

(kg/g) – metric measurement

(lb/oz) – imperial measurement

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

100



## Notes

A series of horizontal dotted lines for taking notes.



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A series of horizontal dotted lines for taking notes.



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.

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