PARENT STOCK

Performance Objectives 2026

Rustic Gold

Aviagen®

Introduction

This booklet contains the performance objectives for Rustic Gold® Parent Stock and should be used in conjunction with Aviagen® parent stock management advice.

The **Rustic Gold** is the choice for customers requiring a slower-growing bird with superior production characteristics and sector-leading feed efficiency and processing performance, balanced with exceptional levels of welfare and robustness.

The **Rustic Gold** is a combination of exclusively slower-growing parents; the Rustic female with excellent reproductive traits and the Gold male.

Performance

The performance objectives included in this document are reflective of the economic drivers and stocking densities typical of Parent Stock production operations within Europe which influence flock cycle planning and management techniques. This typically involves adopting a breeder management strategy which provides first light increase **at** or **before** 21 weeks of age (up to 147 days of age).

Performance can be influenced by many factors including flock management, health status and climatic conditions. These objectives indicate the performance which can be achieved under good management and environmental conditions and when feeding recommended nutrient levels.

Variation in performance may occur for a variety of reasons. For example, feed consumption can be affected by form of feed, energy level and house temperature. Information in this booklet should not be regarded as a specification but as a 'Performance Objective'.

Performance levels given assume flocks are managed with separate-sex feeding.

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 **Rustic Gold** stock, please contact your local Aviagen representative.

Contents

Performance Summary

The figures below are for birds light-simulated **at** or **before** 21 weeks of age (up to 147 days +).

Summary of 40 weeks of production

Age at depletion (days/weeks)	434/62
Total Eggs (HHA)*	194.7
Hatching Eggs (HHA)*	184.3
Chicks/female housed at 161 days (23 weeks)	157.5
Hatchability %	85.5
Age at 5% Production (days/weeks)	161/23
Peak Production % (hen-week)	88.9
Bodyweight at 161 days (23 weeks)	2610
Bodyweight at depletion (g)	3740
Liveability % (rearing period)	95-96
Liveability % (laying period)	92
Feed/100 Chicks day old-448 days (0-64 weeks) (kg)**	33.7
Feed/100 Hatching Eggs day old-448 days (0-64 weeks) (kg)**	28.8

NOTES

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

Gold Male Body Weight and Feeding Program

Age (days)	Age (weeks)	Body Weight (g)	Weekly Gain (g)	Feed (g/bird/day)*	Feed Energy (kcal/kg)	Energy intake (kcal/bird/day)
Day old	0	40		ad lib	2800	ad lib
7	1	145	105	31	2800	88
14	2	300	155	41	2800	114
21	3	485	185	49	2800	136
28	4	690	205	51	2800	143
35	5	865	175	55	2800	153
42	6	1030	165	59	2800	164
49	7	1180	150	65	2600	170
56	8	1320	140	68	2600	177
63	9	1450	130	71	2600	184
70	10	1575	125	73	2600	190
77	11	1700	125	76	2600	197
84	12	1825	125	78	2600	202
91	13	1950	125	80	2600	208
98	14	2075	125	82	2600	214
105	15	2200	125	85	2600	222
112	16	2335	135	86	2700	231
119	17	2470	135	87	2700	234
126	18	2615	145	88	2700	238
133	19	2765	150	90	2700	244
140	20	2915	150	92	2700	248
147	21	3065	150	92	2800	257
154	22	3210	145	93	2800	261
161	23	3350	140	95	2800	267
168	24	3485	135	98	2800	275
175	25	3600	115	100	2800	281
182	26	3705	105	107	2700	288
189	27	3780	75	109	2700	294
196	28	3840	60	110	2700	296
203	29	3890	50	111	2700	300
210	30	3925	35	113	2700	305
217	31	3950	25	115	2700	311
224	32	3975	25	116	2700	314
231	33	4000	25	118	2700	318
238	34	4025	25	119	2700	321
245	35	4050	25	120	2700	324
252	36	4075	25	121	2700	328
259	37	4100	25	122	2700	331
266	38	4125	25	123	2700	333
273	39	4150	25	125	2700	338
280	40	4175	25	126	2700	341
287	41	4200	25	127	2700	344
294	42	4225	25	128	2700	347
301	43	4250	25	129	2700	349
308	44	4275	25	130	2700	352
315	45	4300	25	131	2700	355
322	46	4325	25	133	2700	359
329	47	4350	25	134	2700	362
336	48	4375	25	135	2700	365
343	49	4400	25	136	2700	368
350	50	4425	25	137	2700	370
357	51	4450	25	138	2700	373
364	52	4475	25	139	2700	375
371	53	4500	25	140	2700	378
378	54	4525	25	141	2700	380
385	55	4550	25	141	2700	382
392	56	4575	25	142	2700	384
399	57	4600	25	143	2700	386
406	58	4625	25	144	2700	388
413	59	4650	25	144	2700	389
420	60	4675	25	145	2700	391
427	61	4700	25	145	2700	392
434	62	4725	25	146	2700	393

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 30 weeks (210 days should average approximately 25 g).

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 a 5 stage rearing program and a male diet in lay.*

Feed quantities are based on the feed energy levels as shown in the table.

If different feed energy levels are used, the feed quantities need to be adjusted accordingly.

Rustic Female Body Weight and Feeding Program

Age (days)	Age (weeks)	Body Weight (g)	Weekly Gain (g)	Feed (g/bird/day)*	Feed Energy (kcal/kg)	Energy intake (kcal/bird/day)
Day old	0	40		ad lib	2800	ad lib
7	1	120	80	ad lib	2800	ad lib
14	2	230	110	26	2800	72
21	3	350	120	30	2800	83
28	4	475	125	33	2800	93
35	5	605	130	37	2800	104
42	6	735	130	41	2800	115
49	7	860	125	47	2600	123
56	8	970	110	50	2600	130
63	9	1070	100	53	2600	138
70	10	1170	100	56	2600	145
77	11	1260	90	59	2600	153
84	12	1350	90	62	2600	161
91	13	1440	90	64	2600	166
98	14	1530	90	67	2600	175
105	15	1620	90	72	2600	186
112	16	1720	100	74	2700	199
119	17	1830	110	79	2700	212
126	18	1945	115	84	2700	226
133	19	2070	125	89	2700	239
140	20	2200	130	94	2700	253
147	21	2335	135	95	2800	267
154	22	2475	140	103	2800	287
161	23	2610	135	115	2800	323
168	24	2735	125	136	2800	381
175	25	2855	120	152	2800	426
182	26	2965	110	161	2800	450
189	27	3065	100	161	2800	450
196	28	3145	80	161	2800	450
203	29	3205	60	161	2800	450
210	30	3245	40	161	2800	450
217	31	3270	25	161	2800	450
224	32	3290	20	161	2800	450
231	33	3305	15	161	2800	450
238	34	3320	15	161	2800	450
245	35	3335	15	160	2800	449
252	36	3350	15	160	2800	449
259	37	3365	15	160	2800	448
266	38	3380	15	160	2800	448
273	39	3395	15	160	2800	447
280	40	3410	15	160	2800	447
287	41	3425	15	159	2800	446
294	42	3440	15	159	2800	446
301	43	3455	15	159	2800	445
308	44	3470	15	159	2800	445
315	45	3485	15	159	2800	444
322	46	3500	15	159	2800	444
329	47	3515	15	158	2800	443
336	48	3530	15	158	2800	443
343	49	3545	15	158	2800	442
350	50	3560	15	158	2800	442
357	51	3575	15	158	2800	441
364	52	3590	15	158	2800	441
371	53	3605	15	157	2800	440
378	54	3620	15	157	2800	440
385	55	3635	15	157	2800	439
392	56	3650	15	157	2800	439
399	57	3665	15	156	2800	438
406	58	3680	15	156	2800	438
413	59	3695	15	156	2800	437
420	60	3710	15	156	2800	437
427	61	3725	15	156	2800	436
434	62	3740	15	156	2800	436

NOTES

Body weights are those 4-6 hours after feeding.

**Feed quantities are a guide only, based on a 5 stage rearing program.*

Feed quantities are based on the feed energy levels as shown in the table.

If different feed energy levels are used, the feed quantities need to be adjusted accordingly.

Rustic Female Feeding Into Lay

Hen-Day (%)	Daily Energy Intake (kcal/bird/day)*	Feed Intake (g/bird/day)	Feed Increase (g/bird/day)
5	323	115	
10	328	117	2
15	334	119	2
20	342	122	3
25	351	125	3
30	361	129	4
35	371	133	4
40	383	137	4
45	394	141	4
50	407	145	4
55	420	150	5
65	434	155	5
>75	450	161	6

**Daily energy and feed intakes assume an ambient temperature of 20 - 21°C.*

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.

Weekly Egg Production

Week of production	Age (days)	Age (weeks)	Hen-housed (%)	Hen-week (%)*	Eggs/bird/ week	Eggs/bird/ cum.	Hatching eggs/bird/ week**	Hatching eggs/bird/ cum.	Hatching egg utilization weekly	Hatching egg utilization cum.
1	161	23	5.4	5.4	0.4	0.4				
2	168	24	24.3	24.4	1.7	2.1	1.2	1.2	70.4	59.2
3	175	25	54.3	54.6	3.8	5.9	3.3	4.6	87.3	77.3
4	182	26	75.7	76.3	5.3	11.2	4.9	9.4	92.2	84.4
5	189	27	82.4	83.3	5.8	17.0	5.7	15.1	98.5	89.2
6	196	28	86.4	87.5	6.1	23.0	5.8	20.9	95.6	90.9
7	203	29	87.6	88.9	6.1	29.1	5.9	26.8	95.9	91.9
8	210	30	87.0	88.4	6.1	35.2	5.9	32.7	96.9	92.8
9	217	31	86.2	87.8	6.0	41.3	5.8	38.5	96.7	93.4
10	224	32	85.4	87.2	6.0	47.3	5.8	44.3	96.5	93.8
11	231	33	84.6	86.5	5.9	53.2	5.7	50.0	96.3	94.1
12	238	34	83.7	85.8	5.9	59.0	5.6	55.6	96.1	94.3
13	245	35	82.9	85.1	5.8	64.8	5.6	61.2	95.9	94.4
14	252	36	82.0	84.4	5.7	70.6	5.5	66.7	95.8	94.5
15	259	37	81.1	83.6	5.7	76.3	5.4	72.1	95.7	94.6
16	266	38	80.1	82.8	5.6	81.9	5.4	77.5	95.6	94.7
17	273	39	79.2	82.0	5.5	87.4	5.3	82.8	95.5	94.7
18	280	40	78.3	81.2	5.5	92.9	5.2	88.0	95.4	94.8
19	287	41	77.3	80.4	5.4	98.3	5.2	93.2	95.3	94.8
20	294	42	76.3	79.5	5.3	103.6	5.1	98.3	95.2	94.8
21	301	43	75.3	78.6	5.3	108.9	5.0	103.3	95.1	94.8
22	308	44	74.3	77.7	5.2	114.1	4.9	108.2	95.0	94.8
23	315	45	73.3	76.8	5.1	119.2	4.9	113.1	94.9	94.8
24	322	46	72.2	75.9	5.1	124.3	4.8	117.9	94.8	94.8
25	329	47	71.2	75.0	5.0	129.3	4.7	122.6	94.8	94.8
26	336	48	70.1	74.0	4.9	134.2	4.7	127.3	94.7	94.8
27	343	49	69.0	73.0	4.8	139.0	4.6	131.8	94.7	94.8
28	350	50	68.0	72.0	4.8	143.8	4.5	136.3	94.6	94.8
29	357	51	66.9	71.0	4.7	148.5	4.4	140.8	94.6	94.8
30	364	52	65.8	70.0	4.6	153.1	4.4	145.1	94.5	94.8
31	371	53	64.6	68.9	4.5	157.6	4.3	149.4	94.5	94.8
32	378	54	63.5	67.8	4.4	162.0	4.2	153.6	94.4	94.8
33	385	55	62.3	66.7	4.4	166.4	4.1	157.7	94.4	94.8
34	392	56	61.1	65.6	4.3	170.7	4.0	161.7	94.3	94.8
35	399	57	60.0	64.5	4.2	174.9	4.0	165.7	94.3	94.8
36	406	58	58.8	63.4	4.1	179.0	3.9	169.6	94.2	94.7
37	413	59	57.7	62.3	4.0	183.0	3.8	173.4	94.2	94.7
38	420	60	56.5	61.2	4.0	187.0	3.7	177.1	94.1	94.7
39	427	61	55.4	60.1	3.9	190.9	3.6	180.8	94.1	94.7
40	434	62	54.3	59.0	3.8	194.7	3.6	184.3	94.0	94.7

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 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	161	23				
2	168	24	72.4	70.1	0.9	0.9
3	175	25	79.2	76.7	2.6	3.5
4	182	26	83.1	80.0	4.1	7.6
5	189	27	86.5	82.5	4.9	12.5
6	196	28	88.5	84.1	5.1	17.6
7	203	29	89.4	85.3	5.3	22.9
8	210	30	90.0	86.1	5.3	28.2
9	217	31	90.2	86.8	5.3	33.4
10	224	32	90.5	87.2	5.2	38.7
11	231	33	90.7	87.6	5.2	43.8
12	238	34	90.9	88.0	5.1	48.9
13	245	35	90.7	88.2	5.0	54.0
14	252	36	90.5	88.4	5.0	59.0
15	259	37	90.3	88.5	4.9	63.9
16	266	38	90.1	88.6	4.8	68.7
17	273	39	89.9	88.7	4.8	73.5
18	280	40	89.6	88.8	4.7	78.2
19	287	41	89.2	88.8	4.6	82.8
20	294	42	88.8	88.8	4.5	87.3
21	301	43	88.3	88.8	4.4	91.7
22	308	44	87.8	88.7	4.3	96.0
23	315	45	87.2	88.7	4.2	100.3
24	322	46	86.6	88.6	4.2	104.4
25	329	47	85.9	88.5	4.1	108.5
26	336	48	85.2	88.4	4.0	112.5
27	343	49	84.4	88.2	3.9	116.3
28	350	50	83.6	88.1	3.8	120.1
29	357	51	82.8	87.9	3.7	123.8
30	364	52	82.0	87.7	3.6	127.3
31	371	53	81.1	87.6	3.5	130.8
32	378	54	80.2	87.4	3.4	134.2
33	385	55	79.3	87.1	3.3	137.4
34	392	56	78.4	86.9	3.2	140.6
35	399	57	77.4	86.7	3.1	143.7
36	406	58	76.4	86.5	3.0	146.6
37	413	59	75.4	86.2	2.9	149.5
38	420	60	74.4	86.0	2.8	152.3
39	427	61	73.4	85.7	2.7	155.0
40	434	62	72.4	85.5	2.6	157.5

NOTES

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

Weekly Egg Weight and Egg Mass

Week of production	Age (days)	Age (weeks)	Hen-week (%)	Egg weight (g)	Egg mass*
1	161	23	5.4	49.0	2.6
2	168	24	24.4	50.9	12.4
3	175	25	54.6	52.3	28.6
4	182	26	76.3	53.9	41.1
5	189	27	83.3	55.2	45.9
6	196	28	87.5	56.4	49.3
7	203	29	88.9	57.4	51.0
8	210	30	88.4	58.3	51.5
9	217	31	87.8	59.0	51.8
10	224	32	87.2	59.7	52.0
11	231	33	86.5	60.3	52.1
12	238	34	85.8	60.8	52.2
13	245	35	85.1	61.3	52.2
14	252	36	84.4	61.8	52.1
15	259	37	83.6	62.2	51.9
16	266	38	82.8	62.6	51.8
17	273	39	82.0	62.9	51.6
18	280	40	81.2	63.3	51.4
19	287	41	80.4	63.6	51.1
20	294	42	79.5	64.0	50.9
21	301	43	78.6	64.3	50.5
22	308	44	77.7	64.7	50.3
23	315	45	76.8	65.0	49.9
24	322	46	75.9	65.4	49.6
25	329	47	75.0	65.7	49.3
26	336	48	74.0	66.1	48.9
27	343	49	73.0	66.4	48.5
28	350	50	72.0	66.8	48.1
29	357	51	71.0	67.1	47.6
30	364	52	70.0	67.5	47.2
31	371	53	68.9	67.8	46.7
32	378	54	67.8	68.1	46.1
33	385	55	66.7	68.4	45.6
34	392	56	65.6	68.6	45.0
35	399	57	64.5	68.9	44.4
36	406	58	63.4	69.1	43.8
37	413	59	62.3	69.2	43.1
38	420	60	61.2	69.4	42.4
39	427	61	60.1	69.6	41.8
40	434	62	59.0	69.7	41.1

NOTES

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

NOTES