



Ranger Classic Parent Stock

PERFORMANCE OBJECTIVES

2018



An Aviagen Brand



Introduction

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

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 **at** or **before** 21 weeks (up to 146 days) of age. The Ranger female is an earlier maturing female and so is better suited to a management strategy that accounts for this.

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 Ranger Classic parent stock, please contact your local Aviagen representative.

Contents

| | |
|----|--|
| 02 | Performance Summary |
| 03 | Male Body Weight and Feeding Program |
| 04 | Female Body Weight and Feeding Program |
| 05 | Female Feeding into Lay |
| 06 | Weekly Egg Production |
| 07 | Weekly Hatchability and Chick Production |
| 08 | Weekly Egg Weight and Egg Mass |



Ranger Classic Parent Stock Performance Objectives

Performance Summary

Global Ranger Classic breeder performance objectives for birds light stimulated **at** or **before** 21 weeks (up to 146 days) of age.

Summary of 40 weeks of production

| Age at depletion (days) (weeks) | 434 62 | 434 62 |
|--|-------------|--------------|
| Total Eggs (HH*) | 191.5 | 191.5 |
| Hatching Eggs (HH*) | 180.4 | 180.4 |
| Chicks/female housed at 161 days (23 weeks) | 151.7 | 151.7 |
| Hatchability % | 84.1 | 84.1 |
| Age at 5% Production (days) (weeks) | 161 23 | 161 23 |
| Peak Production % | 85.1 | 85.1 |
| Body weight at 161 days (23 weeks) | 2230 g | 4.92 lb |
| Body weight at depletion | 3250-3350 g | 7.16-7.39 lb |
| Liveability % (rearing period) | 95-96 | 95-96 |
| Liveability % (laying period) | 92 | 92 |
| Feed/100 Chicks** day old -434 days (0-62 weeks) | 31.9 kg | 70.3 lb |
| Feed/100 Hatching Eggs** day old -434 days (0-62 weeks) | 26.9 kg | 59.3 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.



Ranger Classic 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 | 40 | | ad lib | 0.09 | | ad lib | ad lib |
| 7 | 1 | 150 | 110 | 32 | 0.33 | 0.24 | 7.1 | 90 |
| 14 | 2 | 310 | 160 | 42 | 0.68 | 0.35 | 9.2 | 117 |
| 21 | 3 | 505 | 195 | 50 | 1.11 | 0.43 | 11.0 | 139 |
| 28 | 4 | 720 | 215 | 52 | 1.59 | 0.47 | 11.5 | 147 |
| 35 | 5 | 900 | 180 | 56 | 1.98 | 0.40 | 12.3 | 156 |
| 42 | 6 | 1075 | 175 | 64 | 2.37 | 0.39 | 14.2 | 167 |
| 49 | 7 | 1230 | 155 | 67 | 2.71 | 0.34 | 14.8 | 174 |
| 56 | 8 | 1375 | 145 | 70 | 3.03 | 0.32 | 15.4 | 181 |
| 63 | 9 | 1510 | 135 | 72 | 3.33 | 0.30 | 15.9 | 188 |
| 70 | 10 | 1640 | 130 | 75 | 3.62 | 0.29 | 16.5 | 194 |
| 77 | 11 | 1770 | 130 | 77 | 3.90 | 0.29 | 17.0 | 201 |
| 84 | 12 | 1900 | 130 | 79 | 4.19 | 0.29 | 17.5 | 206 |
| 91 | 13 | 2030 | 130 | 82 | 4.48 | 0.29 | 18.0 | 213 |
| 98 | 14 | 2160 | 130 | 84 | 4.76 | 0.29 | 18.5 | 219 |
| 105 | 15 | 2290 | 130 | 88 | 5.05 | 0.29 | 19.3 | 228 |
| 112 | 16 | 2430 | 140 | 86 | 5.36 | 0.31 | 19.1 | 233 |
| 119 | 17 | 2575 | 145 | 88 | 5.68 | 0.32 | 19.4 | 238 |
| 126 | 18 | 2725 | 150 | 90 | 6.01 | 0.33 | 19.8 | 243 |
| 133 | 19 | 2880 | 155 | 92 | 6.35 | 0.34 | 20.3 | 249 |
| 140 | 20 | 3035 | 155 | 94 | 6.69 | 0.34 | 20.7 | 254 |
| 147 | 21 | 3195 | 160 | 97 | 7.04 | 0.35 | 21.4 | 262 |
| 154 | 22 | 3345 | 150 | 99 | 7.37 | 0.33 | 21.8 | 267 |
| 161 | 23 | 3490 | 145 | 101 | 7.69 | 0.32 | 22.3 | 273 |
| 168 | 24 | 3630 | 140 | 104 | 8.00 | 0.31 | 22.9 | 280 |
| 175 | 25 | 3750 | 120 | 106 | 8.27 | 0.26 | 23.4 | 287 |
| 182 | 26 | 3860 | 110 | 109 | 8.51 | 0.24 | 24.0 | 294 |
| 189 | 27 | 3920 | 60 | 111 | 8.64 | 0.13 | 24.5 | 300 |
| 196 | 28 | 3970 | 50 | 112 | 8.75 | 0.11 | 24.7 | 302 |
| 203 | 29 | 4010 | 40 | 113 | 8.84 | 0.09 | 25.0 | 306 |
| 210 | 30 | 4040 | 30 | 115 | 8.91 | 0.07 | 25.4 | 311 |
| 217 | 31 | 4070 | 30 | 117 | 8.97 | 0.07 | 25.8 | 316 |
| 224 | 32 | 4100 | 30 | 118 | 9.04 | 0.07 | 26.1 | 320 |
| 231 | 33 | 4130 | 30 | 120 | 9.10 | 0.07 | 26.4 | 324 |
| 238 | 34 | 4160 | 30 | 121 | 9.17 | 0.07 | 26.7 | 327 |
| 245 | 35 | 4190 | 30 | 122 | 9.24 | 0.07 | 27.0 | 330 |
| 252 | 36 | 4220 | 30 | 124 | 9.30 | 0.07 | 27.3 | 334 |
| 259 | 37 | 4250 | 30 | 125 | 9.37 | 0.07 | 27.5 | 337 |
| 266 | 38 | 4280 | 30 | 126 | 9.44 | 0.07 | 27.8 | 340 |
| 273 | 39 | 4310 | 30 | 128 | 9.50 | 0.07 | 28.1 | 345 |
| 280 | 40 | 4340 | 30 | 129 | 9.57 | 0.07 | 28.4 | 348 |
| 287 | 41 | 4370 | 30 | 130 | 9.63 | 0.07 | 28.7 | 351 |
| 294 | 42 | 4400 | 30 | 131 | 9.70 | 0.07 | 28.9 | 354 |
| 301 | 43 | 4430 | 30 | 132 | 9.77 | 0.07 | 29.2 | 357 |
| 308 | 44 | 4460 | 30 | 133 | 9.83 | 0.07 | 29.4 | 360 |
| 315 | 45 | 4490 | 30 | 134 | 9.90 | 0.07 | 29.6 | 363 |
| 322 | 46 | 4524 | 34 | 136 | 9.97 | 0.07 | 30.0 | 367 |
| 329 | 47 | 4558 | 34 | 137 | 10.05 | 0.07 | 30.2 | 370 |
| 336 | 48 | 4592 | 34 | 138 | 10.12 | 0.07 | 30.5 | 373 |
| 343 | 49 | 4626 | 34 | 139 | 10.20 | 0.07 | 30.7 | 376 |
| 350 | 50 | 4660 | 34 | 140 | 10.27 | 0.07 | 30.9 | 379 |
| 357 | 51 | 4694 | 34 | 141 | 10.35 | 0.07 | 31.2 | 382 |
| 364 | 52 | 4728 | 34 | 142 | 10.42 | 0.07 | 31.4 | 384 |
| 371 | 53 | 4762 | 34 | 143 | 10.50 | 0.07 | 31.6 | 387 |
| 378 | 54 | 4796 | 34 | 144 | 10.57 | 0.07 | 31.8 | 389 |
| 385 | 55 | 4830 | 34 | 145 | 10.65 | 0.07 | 32.0 | 391 |
| 392 | 56 | 4864 | 34 | 146 | 10.72 | 0.07 | 32.1 | 394 |
| 399 | 57 | 4898 | 34 | 147 | 10.80 | 0.07 | 32.3 | 396 |
| 406 | 58 | 4932 | 34 | 147 | 10.87 | 0.07 | 32.5 | 397 |
| 413 | 59 | 4966 | 34 | 148 | 10.95 | 0.07 | 32.6 | 399 |
| 420 | 60 | 5000 | 34 | 148 | 11.02 | 0.07 | 32.7 | 401 |
| 427 | 61 | 5034 | 34 | 149 | 11.10 | 0.07 | 32.8 | 402 |
| 434 | 62 | 5068 | 34 | 149 | 11.17 | 0.07 | 32.9 | 403 |

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 29 weeks (203 days) should average approximately 30-34 g (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 a 4-stage rearing program (refer to the Ranger Classic Parent Stock Nutrition Specifications) and a male diet in lay. Adjustments must be made to reflect feeding differing energy levels.



Ranger Classic Parent Stock Performance Objectives

Female Body Weight and Feeding Program

KEY

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

| 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 | ad lib | 0.25 | 0.17 | ad lib | ad lib |
| 14 | 2 | 220 | 105 | ad lib | 0.49 | 0.23 | ad lib | ad lib |
| 21 | 3 | 330 | 110 | 37 | 0.73 | 0.24 | 8.16 | 104 |
| 28 | 4 | 440 | 110 | 40 | 0.97 | 0.24 | 8.82 | 112 |
| 35 | 5 | 550 | 110 | 42 | 1.21 | 0.24 | 9.26 | 118 |
| 42 | 6 | 675 | 125 | 44 | 1.49 | 0.28 | 9.70 | 114 |
| 49 | 7 | 785 | 110 | 46 | 1.73 | 0.24 | 10.14 | 120 |
| 56 | 8 | 890 | 105 | 49 | 1.96 | 0.23 | 10.80 | 127 |
| 63 | 9 | 990 | 100 | 52 | 2.18 | 0.22 | 11.46 | 135 |
| 70 | 10 | 1080 | 90 | 55 | 2.38 | 0.20 | 12.13 | 143 |
| 77 | 11 | 1170 | 90 | 58 | 2.58 | 0.20 | 12.79 | 151 |
| 84 | 12 | 1250 | 80 | 60 | 2.76 | 0.18 | 13.23 | 156 |
| 91 | 13 | 1330 | 80 | 63 | 2.93 | 0.18 | 13.89 | 164 |
| 98 | 14 | 1400 | 70 | 65 | 3.09 | 0.15 | 14.33 | 169 |
| 105 | 15 | 1470 | 70 | 67 | 3.24 | 0.15 | 14.77 | 174 |
| 112 | 16 | 1570 | 100 | 70 | 3.46 | 0.22 | 15.43 | 189 |
| 119 | 17 | 1670 | 100 | 73 | 3.68 | 0.22 | 16.09 | 197 |
| 126 | 18 | 1770 | 100 | 76 | 3.90 | 0.22 | 16.75 | 205 |
| 133 | 19 | 1870 | 100 | 80 | 4.12 | 0.22 | 17.64 | 216 |
| 140 | 20 | 1970 | 100 | 85 | 4.34 | 0.22 | 18.74 | 230 |
| 147 | 21 | 2060 | 90 | 90 | 4.54 | 0.20 | 19.84 | 243 |
| 154 | 22 | 2150 | 90 | 95 | 4.74 | 0.20 | 20.94 | 257 |
| 161 | 23 | 2230 | 80 | 100 | 4.92 | 0.18 | 22.05 | 280 |
| 168 | 24 | 2310 | 80 | 130 | 5.09 | 0.18 | 28.66 | 364 |
| 175 | 25 | 2390 | 80 | 140 | 5.27 | 0.18 | 30.86 | 392 |
| 182 | 26 | 2460 | 70 | 145 | 5.42 | 0.15 | 31.97 | 406 |
| 189 | 27 | 2530 | 70 | 145 | 5.58 | 0.15 | 31.97 | 406 |
| 196 | 28 | 2590 | 60 | 145 | 5.71 | 0.13 | 31.97 | 406 |
| 203 | 29 | 2640 | 50 | 145 | 5.82 | 0.11 | 31.97 | 406 |
| 210 | 30 | 2670 | 30 | 145 | 5.89 | 0.07 | 31.97 | 406 |
| 217 | 31 | 2690 | 20 | 145 | 5.93 | 0.04 | 31.97 | 406 |
| 224 | 32 | 2710 | 20 | 145 | 5.97 | 0.04 | 31.97 | 406 |
| 231 | 33 | 2730 | 20 | 145 | 6.02 | 0.04 | 31.97 | 406 |
| 238 | 34 | 2750 | 20 | 145 | 6.06 | 0.04 | 31.97 | 406 |
| 245 | 35 | 2770 | 20 | 145 | 6.11 | 0.04 | 31.97 | 406 |
| 252 | 36 | 2790 | 20 | 145 | 6.15 | 0.04 | 31.93 | 406 |
| 259 | 37 | 2810 | 20 | 145 | 6.19 | 0.04 | 31.90 | 405 |
| 266 | 38 | 2830 | 20 | 145 | 6.24 | 0.04 | 31.86 | 405 |
| 273 | 39 | 2850 | 20 | 144 | 6.28 | 0.04 | 31.83 | 404 |
| 280 | 40 | 2870 | 20 | 144 | 6.33 | 0.04 | 31.79 | 404 |
| 287 | 41 | 2890 | 20 | 144 | 6.37 | 0.04 | 31.76 | 403 |
| 294 | 42 | 2910 | 20 | 144 | 6.42 | 0.04 | 31.72 | 403 |
| 301 | 43 | 2930 | 20 | 144 | 6.46 | 0.04 | 31.68 | 402 |
| 308 | 44 | 2950 | 20 | 144 | 6.50 | 0.04 | 31.65 | 402 |
| 315 | 45 | 2970 | 20 | 143 | 6.55 | 0.04 | 31.61 | 402 |
| 322 | 46 | 2990 | 20 | 143 | 6.59 | 0.04 | 31.58 | 401 |
| 329 | 47 | 3010 | 20 | 143 | 6.64 | 0.04 | 31.54 | 401 |
| 336 | 48 | 3030 | 20 | 143 | 6.68 | 0.04 | 31.51 | 400 |
| 343 | 49 | 3050 | 20 | 143 | 6.72 | 0.04 | 31.47 | 400 |
| 350 | 50 | 3070 | 20 | 143 | 6.77 | 0.04 | 31.44 | 399 |
| 357 | 51 | 3090 | 20 | 142 | 6.81 | 0.04 | 31.40 | 399 |
| 364 | 52 | 3110 | 20 | 142 | 6.86 | 0.04 | 31.37 | 398 |
| 371 | 53 | 3130 | 20 | 142 | 6.90 | 0.04 | 31.33 | 398 |
| 378 | 54 | 3150 | 20 | 142 | 6.94 | 0.04 | 31.30 | 397 |
| 385 | 55 | 3170 | 20 | 142 | 6.99 | 0.04 | 31.26 | 397 |
| 392 | 56 | 3190 | 20 | 142 | 7.03 | 0.04 | 31.23 | 397 |
| 399 | 57 | 3210 | 20 | 141 | 7.08 | 0.04 | 31.19 | 396 |
| 406 | 58 | 3230 | 20 | 141 | 7.12 | 0.04 | 31.16 | 396 |
| 413 | 59 | 3250 | 20 | 141 | 7.16 | 0.04 | 31.12 | 395 |
| 420 | 60 | 3270 | 20 | 141 | 7.21 | 0.04 | 31.08 | 395 |
| 427 | 61 | 3290 | 20 | 141 | 7.25 | 0.04 | 31.05 | 394 |
| 434 | 62 | 3310 | 20 | 141 | 7.30 | 0.04 | 31.01 | 394 |

NOTES

Body weights are those 4-6 hours after feeding.

Weekly body-weight gain beyond 30 weeks (210 days) should average approximately 20 g (0.04 lb).

*Feed quantities are a guide only, based on recommended dietary energy levels of a 4-stage rearing program (refer to the Ranger Classic 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) | 406 |
| Digestible Amino Acids (mg/bird/day)* | |
| Lysine | 870 |
| Methionine & Cystine | 856 |
| Methionine | 537 |
| Threonine | 711 |
| Valine | 812 |
| Isoleucine | 725 |
| Argenine | 1146 |
| Tryptophan | 203 |
| Minerals (mg/bird/day) | |
| Calcium | 4350 |
| Available Phosphorus | 508 |

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



Ranger Classic 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 | 161 | 23 | 5.4 | 5.4 | 0.4 | 0.4 | | | | |
| 2 | 168 | 24 | 21.1 | 21.2 | 1.5 | 1.9 | 0.8 | 0.8 | 55.8 | 44.5 |
| 3 | 175 | 25 | 50.1 | 50.3 | 3.5 | 5.4 | 2.5 | 3.3 | 70.5 | 61.5 |
| 4 | 182 | 26 | 73.1 | 73.6 | 5.1 | 10.5 | 4.4 | 7.7 | 86.5 | 73.7 |
| 5 | 189 | 27 | 81.1 | 81.8 | 5.7 | 16.2 | 5.1 | 12.8 | 89.7 | 79.3 |
| 6 | 196 | 28 | 84.6 | 85.5 | 5.9 | 22.1 | 5.5 | 18.3 | 92.2 | 82.8 |
| 7 | 203 | 29 | 85.1 | 86.2 | 6.0 | 28.0 | 5.6 | 23.9 | 94.2 | 85.2 |
| 8 | 210 | 30 | 85.1 | 86.3 | 6.0 | 34.0 | 5.6 | 29.5 | 94.7 | 86.9 |
| 9 | 217 | 31 | 84.2 | 85.6 | 5.9 | 39.9 | 5.6 | 35.2 | 95.2 | 88.1 |
| 10 | 224 | 32 | 83.3 | 84.9 | 5.8 | 45.7 | 5.6 | 40.7 | 95.7 | 89.1 |
| 11 | 231 | 33 | 82.4 | 84.1 | 5.8 | 51.5 | 5.6 | 46.3 | 96.2 | 89.9 |
| 12 | 238 | 34 | 81.6 | 83.4 | 5.7 | 57.2 | 5.5 | 51.8 | 96.2 | 90.5 |
| 13 | 245 | 35 | 80.7 | 82.7 | 5.6 | 62.9 | 5.4 | 57.2 | 96.2 | 91.0 |
| 14 | 252 | 36 | 79.8 | 81.9 | 5.6 | 68.4 | 5.4 | 62.6 | 96.5 | 91.5 |
| 15 | 259 | 37 | 78.9 | 81.2 | 5.5 | 74.0 | 5.3 | 67.9 | 96.4 | 91.8 |
| 16 | 266 | 38 | 78.0 | 80.4 | 5.5 | 79.4 | 5.3 | 73.2 | 96.4 | 92.2 |
| 17 | 273 | 39 | 77.1 | 79.7 | 5.4 | 84.8 | 5.2 | 78.4 | 96.4 | 92.4 |
| 18 | 280 | 40 | 76.2 | 78.9 | 5.3 | 90.2 | 5.1 | 83.5 | 96.4 | 92.7 |
| 19 | 287 | 41 | 75.3 | 78.1 | 5.3 | 95.4 | 5.1 | 88.6 | 96.1 | 92.8 |
| 20 | 294 | 42 | 74.4 | 77.4 | 5.2 | 100.6 | 5.0 | 93.6 | 96.1 | 93.0 |
| 21 | 301 | 43 | 73.5 | 76.6 | 5.1 | 105.8 | 4.9 | 98.6 | 96.1 | 93.2 |
| 22 | 308 | 44 | 72.7 | 75.8 | 5.1 | 110.9 | 4.9 | 103.4 | 96.0 | 93.3 |
| 23 | 315 | 45 | 71.8 | 75.1 | 5.0 | 115.9 | 4.8 | 108.3 | 96.0 | 93.4 |
| 24 | 322 | 46 | 70.9 | 74.3 | 5.0 | 120.9 | 4.8 | 113.0 | 96.0 | 93.5 |
| 25 | 329 | 47 | 70.0 | 73.5 | 4.9 | 125.8 | 4.7 | 117.7 | 96.0 | 93.6 |
| 26 | 336 | 48 | 69.1 | 72.7 | 4.8 | 130.6 | 4.6 | 122.4 | 96.0 | 93.7 |
| 27 | 343 | 49 | 68.2 | 71.9 | 4.8 | 135.4 | 4.6 | 127.0 | 96.0 | 93.8 |
| 28 | 350 | 50 | 67.3 | 71.2 | 4.7 | 140.1 | 4.5 | 131.5 | 95.9 | 93.9 |
| 29 | 357 | 51 | 66.4 | 70.4 | 4.6 | 144.7 | 4.5 | 135.9 | 95.9 | 93.9 |
| 30 | 364 | 52 | 65.5 | 69.6 | 4.6 | 149.3 | 4.4 | 140.3 | 95.4 | 94.0 |
| 31 | 371 | 53 | 64.6 | 68.8 | 4.5 | 153.8 | 4.3 | 144.6 | 95.4 | 94.0 |
| 32 | 378 | 54 | 63.7 | 68.0 | 4.5 | 158.3 | 4.3 | 148.9 | 95.4 | 94.0 |
| 33 | 385 | 55 | 62.9 | 67.2 | 4.4 | 162.7 | 4.2 | 153.1 | 95.3 | 94.1 |
| 34 | 392 | 56 | 62.0 | 66.3 | 4.3 | 167.0 | 4.1 | 157.2 | 95.3 | 94.1 |
| 35 | 399 | 57 | 61.1 | 65.5 | 4.3 | 171.3 | 4.1 | 161.3 | 95.1 | 94.1 |
| 36 | 406 | 58 | 60.2 | 64.7 | 4.2 | 175.5 | 4.0 | 165.3 | 94.8 | 94.2 |
| 37 | 413 | 59 | 59.3 | 63.9 | 4.2 | 179.7 | 3.9 | 169.2 | 94.7 | 94.2 |
| 38 | 420 | 60 | 58.4 | 63.1 | 4.1 | 183.8 | 3.9 | 173.1 | 94.7 | 94.2 |
| 39 | 427 | 61 | 57.5 | 62.2 | 4.0 | 187.8 | 3.8 | 176.9 | 94.7 | 94.2 |
| 40 | 434 | 62 | 56.6 | 61.4 | 3.7 | 191.5 | 3.5 | 180.4 | 94.7 | 94.2 |

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 49 g (20.4 oz/dozen) or heavier.



Ranger Classic 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 | 161 | 23 | | | | |
| 2 | 168 | 24 | | 61.8 | | 0.5 |
| 3 | 175 | 25 | 61.8 | 68.5 | 1.7 | 2.3 |
| 4 | 182 | 26 | 70.8 | 74.1 | 3.5 | 5.7 |
| 5 | 189 | 27 | 78.2 | 77.1 | 4.2 | 9.9 |
| 6 | 196 | 28 | 81.6 | 79.2 | 4.6 | 14.5 |
| 7 | 203 | 29 | 84.2 | 80.9 | 4.8 | 19.3 |
| 8 | 210 | 30 | 86.3 | 82.2 | 4.9 | 24.3 |
| 9 | 217 | 31 | 87.6 | 83.2 | 5.0 | 29.2 |
| 10 | 224 | 32 | 88.6 | 84.0 | 5.0 | 34.2 |
| 11 | 231 | 33 | 88.9 | 84.6 | 5.0 | 39.2 |
| 12 | 238 | 34 | 89.5 | 84.6 | 4.9 | 44.1 |
| 13 | 245 | 35 | 89.9 | 85.2 | 4.9 | 49.0 |
| 14 | 252 | 36 | 89.6 | 85.6 | 4.9 | 49.0 |
| 15 | 259 | 37 | 89.4 | 85.9 | 4.8 | 53.8 |
| 16 | 266 | 38 | 89.1 | 86.2 | 4.7 | 58.5 |
| 17 | 273 | 39 | 88.8 | 86.4 | 4.7 | 63.2 |
| 18 | 273 | 39 | 88.4 | 86.5 | 4.6 | 67.8 |
| 19 | 280 | 40 | 87.9 | 86.6 | 4.5 | 72.3 |
| 20 | 287 | 41 | 87.3 | 86.6 | 4.4 | 76.8 |
| 21 | 294 | 42 | 86.8 | 86.6 | 4.3 | 81.1 |
| 22 | 301 | 43 | 86.2 | 86.6 | 4.3 | 85.4 |
| 23 | 308 | 44 | 86.2 | 86.6 | 4.2 | 89.6 |
| 24 | 315 | 45 | 85.7 | 86.6 | 4.1 | 93.7 |
| 25 | 322 | 46 | 85.1 | 86.5 | 4.1 | 97.7 |
| 26 | 329 | 47 | 84.6 | 86.4 | 4.0 | 101.6 |
| 27 | 336 | 48 | 84.0 | 86.3 | 4.0 | 105.5 |
| 28 | 343 | 49 | 83.5 | 86.2 | 3.9 | 109.3 |
| 29 | 350 | 50 | 82.9 | 86.1 | 3.8 | 113.0 |
| 30 | 357 | 51 | 82.3 | 86.0 | 3.7 | 116.7 |
| 31 | 364 | 52 | 81.8 | 85.8 | 3.6 | 120.2 |
| 32 | 371 | 53 | 81.1 | 85.7 | 3.6 | 123.7 |
| 33 | 378 | 54 | 80.6 | 85.5 | 3.5 | 127.1 |
| 34 | 385 | 55 | 80.0 | 85.4 | 3.4 | 130.4 |
| 35 | 392 | 56 | 79.4 | 85.2 | 3.3 | 133.7 |
| 36 | 399 | 57 | 78.8 | 85.0 | 3.3 | 136.9 |
| 37 | 406 | 58 | 78.2 | 84.9 | 3.2 | 140.0 |
| 38 | 413 | 59 | 77.6 | 84.7 | 3.1 | 143.0 |
| 39 | 420 | 60 | 77.0 | 84.5 | 3.0 | 146.0 |
| 40 | 427 | 61 | 76.4 | 84.3 | 3.0 | 149.0 |
| 41 | 434 | 62 | 75.8 | 84.2 | 2.9 | 151.7 |
| 42 | | | 75.3 | 84.1 | 2.8 | |

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.



Ranger Classic Parent Stock Performance Objectives

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 | 161 | 23 | 5.4 | 47.5 | 2.6 | 20.1 |
| 2 | 168 | 24 | 21.2 | 49.5 | 10.5 | 21.0 |
| 3 | 175 | 25 | 50.3 | 50.7 | 25.5 | 21.5 |
| 4 | 182 | 26 | 73.6 | 52.2 | 38.4 | 22.1 |
| 5 | 189 | 27 | 81.8 | 53.5 | 43.7 | 22.6 |
| 6 | 196 | 28 | 85.5 | 54.7 | 46.8 | 23.2 |
| 7 | 203 | 29 | 86.2 | 55.8 | 48.1 | 23.6 |
| 8 | 210 | 30 | 86.3 | 56.7 | 48.9 | 24.0 |
| 9 | 217 | 31 | 85.6 | 57.5 | 49.2 | 24.3 |
| 10 | 224 | 32 | 84.9 | 58.3 | 49.5 | 24.7 |
| 11 | 231 | 33 | 84.1 | 58.9 | 49.6 | 24.9 |
| 12 | 238 | 34 | 83.4 | 59.5 | 49.6 | 25.2 |
| 13 | 245 | 35 | 82.7 | 60.1 | 49.7 | 25.4 |
| 14 | 252 | 36 | 81.9 | 60.6 | 49.6 | 25.7 |
| 15 | 259 | 37 | 81.2 | 61.0 | 49.5 | 25.8 |
| 16 | 266 | 38 | 80.4 | 61.4 | 49.4 | 26.0 |
| 17 | 273 | 39 | 79.7 | 61.8 | 49.2 | 26.2 |
| 18 | 280 | 40 | 78.9 | 62.2 | 49.1 | 26.3 |
| 19 | 287 | 41 | 78.1 | 62.5 | 48.8 | 26.5 |
| 20 | 294 | 42 | 77.4 | 62.9 | 48.7 | 26.6 |
| 21 | 301 | 43 | 76.6 | 63.2 | 48.4 | 26.8 |
| 22 | 308 | 44 | 75.8 | 63.6 | 48.2 | 26.9 |
| 23 | 315 | 45 | 75.1 | 63.9 | 48.0 | 27.1 |
| 24 | 322 | 46 | 74.3 | 64.3 | 47.8 | 27.2 |
| 25 | 329 | 47 | 73.5 | 64.6 | 47.5 | 27.3 |
| 26 | 336 | 48 | 72.7 | 65.0 | 47.3 | 27.5 |
| 27 | 343 | 49 | 71.9 | 65.3 | 47.0 | 27.6 |
| 28 | 350 | 50 | 71.2 | 65.7 | 46.8 | 27.8 |
| 29 | 357 | 51 | 70.4 | 66.0 | 46.4 | 27.9 |
| 30 | 364 | 52 | 69.6 | 66.4 | 46.2 | 28.1 |
| 31 | 371 | 53 | 68.8 | 66.7 | 45.9 | 28.2 |
| 32 | 378 | 54 | 68.0 | 67.0 | 45.5 | 28.4 |
| 33 | 385 | 55 | 67.2 | 67.3 | 45.2 | 28.5 |
| 34 | 392 | 56 | 66.3 | 67.6 | 44.8 | 28.6 |
| 35 | 399 | 57 | 65.5 | 67.9 | 44.5 | 28.7 |
| 36 | 406 | 58 | 64.7 | 68.1 | 44.1 | 28.8 |
| 37 | 413 | 59 | 63.9 | 68.3 | 43.6 | 28.9 |
| 38 | 420 | 60 | 63.1 | 68.5 | 43.2 | 29.0 |
| 39 | 427 | 61 | 62.2 | 68.8 | 42.8 | 29.1 |
| 40 | 434 | 62 | 61.4 | 69.0 | 42.4 | 29.2 |

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, spanning the width of the page.



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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