



Ranger Premium Parent Stock

NUTRITION SPECIFICATIONS

2018



An Aviagen Brand



Introduction

This booklet contains the nutritional recommendations for Ranger Premium™ parent stock and is to be used with the **Parent Stock Management Handbook** supplied by Aviagen® and the **Ranger Premium Parent Stock Performance Objectives**.

Performance

To achieve optimal reproductive performance, it is important that the body-weight profiles recommended in the Ranger Premium Parent Stock Performance Objectives are followed. For the nutritional recommendations that follow, nutrient specifications presented have been based upon daily energy allocations that enable body-weight profiles to be achieved.

Please note, these nutrient recommendations are based on the specified energy levels. Adjustment of nutrient levels must be made to reflect the feeding of different energy levels. Feed allocation should be determined by body weight and egg production levels, and therefore altered to maintain the recommended weight and egg production profiles.

It may be beneficial to use a separate male diet during the production period. A specification for a male diet is provided in this booklet.

For further information regarding these recommendations or for more specialized situations and advice on local markets, please contact your Aviagen Nutritionist or any Aviagen Representative.

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Ranger Premium Parent Stock Nutrition Specifications

Female Parent Stock Nutrient Specifications

		Starter 1		Starter 2		Grower		Pre-Breeder		Breeder 1		Breeder 2 ^a		Breeder 3 ^a	
Age Fed	days	0-21 days		22-35 days		36-105 days		106 days to 5% production		5% production to 245 days		246-350 days		After 351 days	
Energy per kg	kcal	2800		2800		2600		2700		2800		2800		2800	
	MJ	11.70		11.70		10.90		11.30		11.70		11.70		11.70	
Energy per lb	kcal	1270		1270		1179		1225		1270		1270		1270	
AMINO ACIDS*		Total	Digest	Total	Digest	Total	Digest	Total	Digest	Total	Digest	Total	Digest	Total	Digest
Lysine	%	1.06	0.95	0.74	0.67	0.58	0.52	0.58	0.52	0.67	0.60	0.62	0.56	0.58	0.52
Methionine + Cystine	%	0.84	0.74	0.67	0.59	0.59	0.52	0.58	0.51	0.67	0.59	0.65	0.57	0.59	0.54
Methionine	%	0.51	0.46	0.41	0.37	0.36	0.33	0.35	0.32	0.41	0.37	0.40	0.36	0.36	0.35
Threonine	%	0.75	0.66	0.60	0.53	0.50	0.44	0.47	0.41	0.55	0.49	0.53	0.47	0.51	0.47
Valine	%	0.80	0.71	0.70	0.63	0.49	0.44	0.51	0.45	0.63	0.56	0.60	0.53	0.57	0.51
IsoLeucine	%	0.70	0.62	0.62	0.55	0.45	0.40	0.47	0.41	0.56	0.50	0.54	0.48	0.51	0.45
Arginine	%	1.17	1.05	0.93	0.83	0.71	0.64	0.74	0.67	0.88	0.79	0.86	0.77	0.80	0.72
Tryptophan	%	0.19	0.16	0.18	0.15	0.14	0.12	0.15	0.13	0.16	0.14	0.15	0.13	0.14	0.12
Leucine	%	1.23	1.11	0.93	0.83	0.77	0.69	0.80	0.72	1.04	0.94	1.00	0.90	0.96	0.86
Crude Protein	%	19.00		17.00		13.00-14.00		14.00		15.00		14.00		13.00	
MINERALS*															
Calcium	%	1.00		1.00		0.90		1.20		3.00		3.20		3.40	
Av. Phosphorus	%	0.45		0.45		0.42		0.35		0.35		0.33		0.32	
Sodium	%	0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23	
Chloride	%	0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23		0.18-0.23	
Potassium	%	0.40-0.90		0.40-0.90		0.40-0.90		0.60-0.90		0.60-0.90		0.60-0.90		0.60-0.90	
ADDED TRACE MINERALS PER KG															
Copper	mg			16								10			
Iodine	mg			1.25								2.00			
Iron	mg			40								50			
Manganese	mg			120								120			
Selenium	mg			0.30								0.30			
Zinc	mg			110								110			
ADDED VITAMINS PER KG															
				Wheat based feed	Maize based feed							Wheat based feed	Maize based feed		
Vitamin A	IU			11000	10000							12000	11000		
Vitamin D3	IU			3500	3500							3500	3500		
Vitamin E	IU			100	100							100	100		
Vitamin K (Menadione)	mg			3	3							5	5		
Thiamin (B1)	mg			3	3							3	3		
Riboflavin (B2)	mg			6	6							12	12		
Nicotinic Acid	mg			30	35							50	55		
Pantothenic Acid	mg			13	15							13	15		
Pyridoxine (B6)	mg			4	3							5	4		
Biotin	mg			0.20	0.15							0.30	0.25		
Folic Acid	mg			1.50	1.50							2.00	2.00		
Vitamin B12	mg			0.02	0.02							0.03	0.03		
MINIMUM SPECIFICATION															
Choline per kg	mg	1400		1400		1300		1200		1200		1050		1050	
Linoleic Acid	%	1.00		1.00		1.00		1.00		1.25		1.25		1.25	

Digest = Digestible

* Energy base value. Nutrients should be factored accordingly when feeding differing energy values.

^a Breeder 2 and 3 can be useful to help control egg size and improve shell quality.

NOTES: These feed specifications should be used as a guide. They may require adjustment for local conditions, legislation and markets.



Ranger Premium Parent Stock Nutrition Specifications

Male Parent Stock Nutrient Specifications

Feed allocation will be determined by male body weight and condition.
The male diet should be introduced when birds are moved to the laying house or at light stimulation.

		Male Feed	
Energy per kg	kcal	2700	
	MJ	11.30	
Energy per lb	kcal	1225	
AMINO ACIDS*		Total	Digest
Lysine	%	0.49	0.44
Methionine + Cystine	%	0.48	0.42
Methionine	%	0.31	0.28
Threonine	%	0.38	0.33
Valine	%	0.42	0.37
IsoLeucine	%	0.39	0.34
Arginine	%	0.58	0.52
Tryptophan	%	0.09	0.08
Leucine	%	0.58	0.52
Crude Protein	%	11.50	
MINERALS*			
Calcium	%	0.70	
Available Phosphorus	%	0.35	
Sodium	%	0.18-0.23	
Chloride	%	0.18-0.23	
Potassium	%	0.60-0.90	
ADDED TRACE MINERALS PER KG			
Copper	mg	10	
Iodine	mg	2.00	
Iron	mg	50	
Manganese	mg	120	
Selenium	mg	0.30	
Zinc	mg	110	
ADDED VITAMINS PER KG		Wheat based feed	Maize based feed
Vitamin A	IU	12000	11000
Vitamin D3	IU	3500	3500
Vitamin E	IU	100	100
Vitamin K (Menadione)	mg	5	5
Thiamin (B1)	mg	3	3
Riboflavin (B2)	mg	12	12
Nicotinic Acid	mg	50	55
Pantothenic Acid	mg	13	15
Pyridoxine (B6)	mg	5	4
Biotin	mg	0.30	0.25
Folic Acid	mg	2.00	2.00
Vitamin B12	mg	0.03	0.03
MINIMUM SPECIFICATION			
Choline per kg	mg	1000	
Linoleic Acid	%	1.00	

Digest = Digestible

* Energy base value. Nutrients should be factored accordingly when feeding differing energy values.

NOTES: These feed specifications should be used as a guide. They may require adjustment for local conditions, legislation and markets.



Ranger Premium Parent Stock Nutrition Specifications

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Ranger Premium Parent Stock Nutrition Specifications

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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.

For further information on the management of Rowan Range® stock, please contact your local representative.

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