



An Aviagen Brand

Arbor Acres plus

Parent Stock Nutrition Specifications

2013



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Introduction

This booklet contains the nutritional recommendations for Arbor Acres Plus Parent Stock and is to be used with the Arbor Acres Parent Stock Management Handbook and Arbor Acres Plus Parent Stock Performance Objectives.

PERFORMANCE

To achieve optimal reproductive performance, it is important that the body weight profiles recommended in the Arbor Acres Plus 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.

The feed specifications are based on a 3-stage rearing program.

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 Technical Service Manager.

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Arbor Acres Plus Parent Stock *Nutrition Specifications*

Table 1: Female Parent Stock Nutrient Specifications

Three stage rearing program.

		STARTER		GROWER		PRE-BREEDER		BREEDER 1		BREEDER 2**	
Age fed	days	0-28		29-126		127 to 5% production		from 5% production		after 245 days	
Energy per kg	kcal	2800		2800		2800		2800		2800	
	MJ	11.7		11.7		11.7		11.7		11.7	
Energy per lb	kcal	1270		1270		1270		1270		1270	
AMINO ACIDS*		TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹	TOTAL	DIGEST¹
Lysine	%	1.06	0.95	0.68	0.61	0.62	0.56	0.67	0.60	0.62	0.56
Methionine & Cystine	%	0.84	0.74	0.62	0.55	0.57	0.50	0.64	0.56	0.62	0.55
Methionine	%	0.46	0.40	0.37	0.33	0.37	0.33	0.40	0.35	0.39	0.34
Threonine	%	0.72	0.64	0.54	0.48	0.48	0.43	0.53	0.47	0.50	0.45
Valine	%	0.80	0.71	0.64	0.57	0.53	0.47	0.63	0.56	0.59	0.53
Isoleucine	%	0.70	0.62	0.56	0.50	0.48	0.43	0.59	0.53	0.57	0.51
Arginine	%	1.17	1.05	0.84	0.76	0.77	0.69	0.88	0.79	0.85	0.77
Tryptophan	%	0.19	0.16	0.16	0.14	0.15	0.13	0.16	0.14	0.15	0.13
Leucine	%	1.23	1.11	0.84	0.76	0.83	0.75	1.04	0.94	1.00	0.90
Crude Protein	%	19.00		15.00		15.00		15.00		14.00	
MINERALS*											
Calcium	%	1.00		0.90		1.20		3.00		3.20	
Available Phosphorus	%	0.45		0.42		0.35		0.35		0.32	
Sodium	%	0.16-0.23		0.16-0.23		0.16-0.23		0.15-0.20		0.15-0.20	
Chloride	%	0.16-0.23		0.16-0.23		0.16-0.23		0.16-0.23		0.16-0.23	
Potassium	%	0.40-0.90		0.40-0.90		0.40-0.90		0.60-0.90		0.60-0.90	
ADDED TRACE MINERALS PER KG											
Copper	mg	16		16		16		10		10	
Iodine	mg	1.25		1.25		1.25		2.00		2.00	
Iron	mg	40		40		40		50		50	
Manganese	mg	120		120		120		120		120	
Selenium	mg	0.30		0.30		0.30		0.30		0.30	
Zinc	mg	110		110		110		110		110	
ADDED VITAMINS PER KG											
		Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed	Wheat Based Feed	Maize Based Feed
Vitamin A	IU	11000	10000	11000	10000	11000	10000	12000	11000	12000	11000
Vitamin D3	IU	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
Vitamin E	IU	100	100	100	100	100	100	100	100	100	100
Vitamin K (Menadione)	mg	3	3	3	3	3	3	5	5	5	5
Thiamin (B1)	mg	3	3	3	3	3	3	3	3	3	3
Riboflavin (B2)	mg	6	6	6	6	6	6	12	12	12	12
Nicotinic Acid	mg	30	35	30	35	30	35	50	55	50	55
Pantothenic Acid	mg	13	15	13	15	13	15	13	15	13	15
Pyridoxine (B6)	mg	4	3	4	3	4	3	5	4	5	4
Biotin	mg	0.20	0.15	0.20	0.15	0.20	0.15	0.30	0.25	0.30	0.25
Folic Acid	mg	1.50	1.50	1.50	1.50	1.50	1.50	2.00	2.00	2.00	2.00
Vitamin B12	mg	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
Minimum Specification											
Choline per kg	mg	1400		1300		1200		1200		1050	
Linoleic Acid	%	1.00		1.00		1.00		1.25		1.25	

Digest¹ = Digestible

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

**A Breeder 2 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.

Arbor Acres Plus Parent Stock *Nutrition Specifications*

Table 2: Female Parent Stock Nutrient Allocation at Peak Performance

Three stage rearing program.

NUTRIENT	NUTRIENT ALLOCATION AT PEAK
Energy (kcal/bird/day)	457
DIGESTIBLE AMINO ACIDS (mg/bird/day)	
Lysine	983
Methionine & Cystine	918
Methionine	574
Threonine	769
Valine	914
Isoleucine	856
Arginine	1291
Tryptophan	226
MINERALS (mg/bird/day)	
Calcium	4890
Available Phosphorus	571

Notes:

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

These nutrient allocations at peak are based on feeding 163 g (35.9 lb/100 birds/day) of a 2800 kcal ME/kg (1270 kcal ME/lb) diet.

Table 3: Male Parent Stock Nutrient Specifications

Three stage rearing program. The male diet is provided when birds are moved to the laying house or at photo-stimulation.

		MALE FEED	
Energy per kg	kcal	2750	
	MJ	11.5	
Energy per lb	kcal	1248	
AMINO ACIDS*		TOTAL	DIGEST¹
Lysine	%	0.50	0.45
Methionine & Cystine	%	0.49	0.43
Methionine	%	0.32	0.29
Threonine	%	0.38	0.34
Valine	%	0.43	0.38
Isoleucine	%	0.39	0.35
Arginine	%	0.59	0.53
Tryptophan	%	0.10	0.08
Leucine	%	0.59	0.53
Crude Protein	%	12.00	
MINERALS*			
Calcium	%	0.70	
Available Phosphorus	%	0.35	
Sodium	%	0.15-0.20	
Chloride	%	0.16-0.23	
Potassium	%	0.60-0.90	
ADDED TRACE MINERALS PER KG			
Copper	mg	10	
Iodine	mg	2	
Iron	mg	50	
Manganese	mg	120	
Zinc	mg	110	
Selenium	mg	0.3	
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	

Digest¹ = 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.





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, please contact your local Nutrition or Technical Service Manager.

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