



**FEEDING RECOMMENDATIONS FOR PARENT STOCK**  
**NORTH AND SOUTH AMERICA**  
**NICHOLAS PARENT STOCK**

**Rearing Diets**

		<b>STARTER</b>		<b>REARER</b>		<b>GROWER 1</b>		<b>GROWER 2</b>		<b>GROWER 3</b>		<b>GROWER 4</b>	
Hens	Days	0-14*		15-42*		43-70*		71-84*		85-203**		as needed	
Toms	Days	0-28*		29-42*		43-70*		71-112*		113-selection ***			
Protein	%	25-26		21-22		16-17		12-14		9-12		8-10	
Energy	Cals/lb	1250		1250		1270		1270		1270		1270	
	Kcal/kg	2756		2756		2800		2800		2800		2800	
<b>AMINO ACIDS</b>		Total	Digestible	Total	Digestible	Total	Digestible	Total	Digestible	Total	Digestible	Total	Digestible
Lysine	%	1.55	1.40	1.15	1.04	0.90	0.81	0.65	0.58	0.45	0.40	0.30	0.25
Methionine.	%	0.60	0.56	0.45	0.41	0.38	0.34	0.29	0.26	0.25	0.22	0.19	0.17
M+C	%	1.05	0.93	0.80	0.73	0.68	0.61	0.52	0.47	0.45	0.40	0.35	0.31
Tryptophan	%	0.25	0.22	0.20	0.18	0.17	0.15	0.15	0.13	0.15	0.13	0.13	0.11
Threonine	%	0.99	0.89	0.74	0.67	0.61	0.55	0.42	0.38	0.29	0.26	0.22	0.20
Arginine	%	1.67	1.50	1.26	1.13	0.98	0.89	0.74	0.67	0.53	0.47	0.39	0.35
<b>MINERALS</b>													
Calcium (minimum)	%	1.45		1.35		1.25		1.10		1.00		1.00	
Available Phosphorus (min)	%	0.73		0.68		0.62		0.55		0.50		0.50	
Sodium (min.)	%	0.17		0.16		0.16		0.16		0.16		0.16	
Potassium (guide)	%	1.15		1.10		1.00		0.90		0.85		0.80	
Chloride (min)	%	0.20		0.20		0.18		0.18		0.18		0.18	
Linoleic Acid (18:2) (min)	%	1.25		1.20		1.10		1.00		1.00		0.90	

\* The ages shown are a guide, see feeding guidelines for more detail.  
 \*\* If Hen weights rise above the target line after 12 weeks of age then the Grower 4 ration should be used.  
 \*\*\* Toms being control fed can be fed Grower 2 or Controlled Tom diet.

Metabolizable energy and Digestible Amino Acids are based on Adult Chicken Values



**FEEDING RECOMMENDATIONS FOR PARENT STOCK**  
**NORTH AND SOUTH AMERICA**  
**NICHOLAS PARENT STOCK**

**Laying Diets**

		<b>BREEDER 1</b>		<b>BREEDER 2</b>		<b>BREEDER 3</b>	
		<b>HOT</b>		<b>MODERATE</b>		<b>COOL</b>	
Temperature		91°F+ (32°C+)		71°-90°F (21°-32°C)		45°-70°F (7°-21°C)	
Protein	%	18-20		17-18		15.5-16.5	
Energy	Cals/lb	1300		1280		1270	
	Kcals/kg	2865		2820		2800	
<b>AMINO ACIDS</b>		Total	Digestible	Total	Digestible	Total	Digestible
Lysine	%	0.88	0.82	0.83	0.77	0.78	0.73
Methionine.	%	0.45	0.42	0.40	0.37	0.37	0.34
M+C	%	0.70	0.65	0.66	0.61	0.62	0.58
Tryptophan	%	0.18	0.17	0.17	0.16	0.16	0.15
Threonine	%	0.61	0.57	0.59	0.55	0.57	0.53
Arginine	%	0.88	0.82	0.86	0.80	0.85	0.79
<b>MINERALS</b>							
Calcium (minimum)	%	2.90		2.85		2.80	
Available Phosphorus (min)	%	0.40		0.38		0.35	
Sodium (min.)	%	0.20		0.18		0.17	
Potassium (guide)	%	0.85		0.85		0.85	
Chloride (min)	%	0.22		0.21		0.20	
Linoleic Acid (18:2) (min)	%	1.55		1.55		1.50	
The rations should contain a minimum of 6% total fat of which at least 3% is added oil. In hot weather added fat should be increased to 5%							

<b>MALE FEEDING</b>			
<b>Full Fed Tom</b>		<b>Control Fed Tom</b>	
<b>Selection to end</b>		<b>Selection to end</b>	
9-12		14-15	
1270		1300	
2800		2866	
Total	Digestible	Total	Digestible
0.45	0.40	0.65	0.58
0.25	0.22	0.29	0.26
0.45	0.40	0.52	0.47
0.15	0.13	0.16	0.14
0.29	0.26	0.42	0.38
0.53	0.47	0.74	0.67
1.00		1.10	
0.50		0.55	
0.16		0.16	
0.85		0.90	
0.18		0.18	
1.00		1.00	
Males should receive the same vitamin and trace mineral supplementation as breeder layers.			

**Phase feeding in Laying Period**

Flocks can be stepped down to a lower specification diets after 12-14 weeks of lay .  
 We would recommend reviewing this with a Nicholas service person.

	<b>From Lighting to 12 weeks of Lay</b>	<b>From 12 Weeks till end of Lay</b>
Autumn to Spring	Breeder 2	Breeder 3
Summer	Breeder 1	Breeder 2



**VITAMIN AND TRACE MINERAL ADDITIONS**

**NICHOLAS PARENT STOCK**

**USA Regulations**

		STARTING		GROWING		LAYING	
		0-6 weeks		7-29 weeks		29+ weeks	
ADDED VITAMINS / KILOGRAM		Wheat Based	Maize Based	Wheat Based	Maize Based	Wheat Based	Maize Based
Vitamin A	iu	12000	11000	8000	6000	12000	11000
Vitamin D3	iu	5000	5000	4000	4000	5000	5000
Vitamin E	iu	100	100	50	50	100	100
Vitamin K	mg	4	4	2	2	5	5
Thiamin (B1)	mg	4	4	1	1	4	4
Riboflavin (B2)	mg	10	10	5	5	20	20
Nicotinic Acid	mg	70	80	50	55	70	80
Pantothenic Acid	mg	25	28	15	16	25	28
Pyridoxine	mg	7	6	5	4	7	6
Biotin	mg	0.30	0.20	0.30	0.20	0.45	0.35
Folic Acid	mg	4	4	2	2	6	6
Vitamin B12	mg	0.04	0.04	0.02	0.02	0.04	0.04
Choline	mg	1600	1600	1200	1200	1600	1600
<b>ADDED TRACE MINERALS PER KG</b>							
Copper	mg		25		20		25
Iron	mg		50		40		45
Manganese	mg		160		140		140
Selenium*	mg		0.3		0.3		0.3
Zinc	mg		140		120		120
Iodine	mg		3		2		3

\* 50% of the selenium should be in the organic form  
 Some milling processes will destroy vitamin activity, in such circumstances vitamin addition must be increased to cover these losses.  
 Productive males should receive the same vitamin and trace mineral supplementation as layers.

Feed Ingredients -Typical Analysis

	Protein	Fat	Dry Matter	Lysine		Methionine		M+C		Tryptophan		Threonine		Arginine		Valine		iso-Leucine		Energy		Calcium	T. Phos	Av. Phos	Na	Cl	K	Choline	Linoleic
	%	%	%	Total %	Available %	Total %	Available %	Total %	Available %	Total %	Available %	Total %	Available %	Total %	Available %	Total %	Available %	Total %	Available %	Kcals/kg %	Mj/kg %	%	%	%	%	%	%	mg	%
MAIZE	8.5	3.5	88.0	0.24	0.22	0.18	0.17	0.37	0.34	0.06	0.05	0.31	0.27	0.41	0.38	0.42	0.38	0.30	0.27	3275	13.7	0.03	0.29	0.09	0.01	0.05	0.40	620	1.88
MAIZE 7.5%	7.5	3.6	88.0	0.22	0.18	0.17	0.15	0.34	0.30	0.06	0.05	0.27	0.23	0.35	0.32	0.35	0.31	0.25	0.22	3275	13.7	0.03	0.29	0.09	0.01	0.05	0.40	620	1.92
WHEAT	10.5	1.5	86.0	0.29	0.24	0.17	0.15	0.41	0.36	0.13	0.11	0.31	0.25	0.49	0.42	0.44	0.39	0.35	0.31	3020	12.7	0.05	0.30	0.08	0.01	0.05	0.40	1000	0.62
BARLEY	9.8	1.6	87.0	0.36	0.30	0.17	0.15	0.39	0.33	0.12	0.10	0.34	0.28	0.50	0.43	0.48	0.41	0.34	0.30	2800	11.7	0.06	0.36	0.12	0.04	0.13	0.35	990	0.70
SORGHUM	10.0	3.3	88.0	0.23	0.18	0.16	0.15	0.31	0.29	0.09	0.07	0.33	0.26	0.40	0.34	0.49	0.42	0.40	0.33	3215	13.5	0.03	0.27	0.08	0.01	0.05	0.33	660	1.00
OATS	11.2	4.2	87.0	0.47	0.38	0.19	0.15	0.50	0.37	0.13	0.11	0.38	0.28	0.73	0.66	0.57	0.47	0.41	0.35	2620	11.0	0.10	0.33	0.10	0.01	0.10	0.54	950	1.60
SOYAMEAL	47.5	1.4	87.0	2.93	2.63	0.68	0.63	1.38	1.21	0.61	0.51	1.86	1.66	3.46	3.18	2.23	2.00	2.16	1.98	2150	9.0	0.30	0.70	0.25	0.02	0.03	2.25	2730	0.70
FULL FAT SOYA	35.6	18.2	88.0	2.24	1.98	0.52	0.45	1.09	0.89	0.49	0.42	1.43	1.21	2.64	2.39	1.70	1.47	1.62	1.41	3450	14.5	0.25	0.60	0.23	0.01	0.05	1.70	2860	9.20
SUNFLOWER MEAL	38.6	1.3	90.0	1.35	1.17	0.90	0.83	1.57	1.38	0.47	0.37	1.43	1.24	3.26	3.09	1.91	1.70	1.59	1.46	1600	6.7	0.37	1.15	0.22	0.03	0.12	1.47	2890	0.68
SUNFLOWER MEAL	31.0	1.4	89.0	1.13	0.98	0.72	0.67	1.28	1.13	0.37	0.29	1.17	1.02	2.55	2.42	1.56	1.39	1.28	1.18	1300	5.5	0.36	1.13	0.21	0.03	0.12	1.45	2880	0.75
RAPESEED MEAL	34.3	1.3	88.0	1.92	1.54	0.69	0.61	1.56	1.27	0.45	0.40	1.51	1.21	2.08	1.87	1.74	1.45	1.34	1.14	1670	7.0	0.66	1.12	0.32	0.01	0.07	1.34	6700	0.30
WHOLE RAPESEED	19.6	44.7	92.0	1.15	0.94	0.41	0.35	0.93	0.72	0.26	0.21	0.87	0.64	1.17	1.03	1.01	0.81	0.77	0.61	4520	19.0	0.49	0.60	0.15	0.01	0.08	0.64	3750	9.80
PEAS	22.5	1.0	87.0	1.57	1.23	0.23	0.17	0.56	0.42	0.20	0.16	0.81	0.69	2.14	2.10	1.04	0.91	0.88	0.80	2620	11.0	0.11	0.48	0.11	0.01	0.10	1.00	642	0.24
FIELD BEANS	24.0	0.9	87.0	1.55	1.40	0.19	0.16	0.50	0.41	0.21	0.17	0.86	0.75	2.12	1.94	1.12	0.94	0.99	0.86	2580	10.8	0.11	0.62	0.20	0.02	0.09	1.06	1670	0.24
MAIZE GLUTEN FEED	22.7	2.7	89.0	0.74	0.58	0.39	0.32	0.85	0.64	0.13	0.11	0.84	0.67	1.01	0.97	1.13	0.95	0.72	0.59	1920	8.1	0.12	0.50	0.18	0.03	0.05	0.38	330	1.35
MAIZE GLUTEN MEAL	61.0	2.3	90.0	1.03	0.92	1.44	1.40	2.54	2.36	0.32	0.31	2.10	1.96	1.95	1.88	2.80	2.69	2.50	2.40	3560	14.9	0.40	0.50	0.18	0.01	0.05	0.16	1510	1.63
WHEATFEED	16.0	2.5	87.0	0.58	0.47	0.27	0.20	0.59	0.45	0.20	0.18	0.51	0.38	0.97	0.85	0.75	0.53	0.54	0.42	1825	7.7	0.10	0.95	0.26	0.03	0.03	1.30	1440	1.05
WHEATBRAN	15.0	2.5	87.0	0.61	0.45	0.24	0.18	0.56	0.41	0.21	0.14	0.50	0.36	1.02	0.79	0.69	0.53	0.47	0.36	1475	6.2	0.19	1.10	0.35	0.04	0.03	1.25	1230	1.05
RICE BRAN	13.5	14.0	90.0	0.60	0.46	0.27	0.22	0.54	0.38	0.14	0.12	0.54	0.38	1.05	0.92	0.69	0.59	0.45	0.39	2370	9.9	0.14	1.30	0.25	0.02	0.05	1.30	1130	3.85
RICE BRAN EXTRACTED	14.7	1.2	89.0	0.64	0.47	0.32	0.24	0.64	0.45	0.17	0.11	0.59	0.40	1.14	0.98	0.78	0.58	0.52	0.38	1610	6.8	0.08	1.38	0.28	0.02	0.07	1.21	1230	0.36
DDS	25.3	7.8	87	0.76	0.54	0.40	0.35	0.64	0.53	0.24	0.15	0.85	0.58	0.97	0.81	1.29	1.10	1.03	0.86	2700	11.3	0.36	0.75	0.19	0.67	0.24	0.95	1850	3.40
SOYABEAN OIL	-	99	98.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8900	37.3	-	-	-	-	-	-	-	52.0
PALM FATTY ACID	-	98	98.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7500	31.4	-	-	-	-	-	-	-	5.0

This data is provided as an aid to formulation only. Information on the analysis of locally available ingredients should always be used in preference.  
 This information is provided so the nutritionist can understand the basis for the feed specification.  
 Metabolisable energy and Digestible Amino Acids are based on Adult Chicken Values as at present insufficient information is available to assign specific turkey values.