NUTRIENT SPECIFICATION

FEEDING GUIDELINES FOR B.U.T. AND NICHOLAS BREEDS

		Starter	Rearer	Grower 1	Grower 2	Grower 3	Grower 4	Quality Managed Male Feed	Quantity Managed Male Feed	High Energy Male
B.U.T. Females	Kg feed/bird[1]	0.74	2.21	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	As needed			
	Days[1]	0 – 21	22 – 42	43 – 70	71 – 84	85 – 203	–			
	Weeks[1]	0 – 3	3 – 6	6 – 10	10 – 12	12 – 29	–			
Nicholas Females	Kg feed/bird[1]	0.56	1.52	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	As needed			
	Days[1]	0 – 14	15 – 35	35 – 63	64 – 84	85 – 203[2]	–			
	Weeks[1]	0 – 2	2 – 5	5 – 9	9 – 12	12 – 29	–			
Males	Kg feed/bird[1]	1.82	2.64	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	Adjust feed amount based on actual flock weight	As needed	Ad – lib	Measured quantity per day	Ad – lib
	Days[1]	0 – 28	29 – 42	43 – 70	71 – 112	113 – selection[5]	–			
	Weeks[1]	0 – 4	4 – 6	6 – 10	10 – 16	16 – selection	–			

		Starter		Rearer		Grower 1		Grower 2		Grower 3		Grower 4		Quality Managed Male Feed		Quantity Managed Male Feed		High Energy Male	
Protein	%	25 – 26		21 – 23		16 – 18		12 – 14		10 – 12		9 – 11		9 – 12		14 – 15		9 – 11	
Energy[4]	Cals/lb	1270		1270		1270		1270		1270		1270		1270		1300		1455	
	Kcal/kg	2800		2800		2800		2800		2800		2800		2800		2866		3200	
	Mj/kg	11.6		11.6		11.6		11.6		11.6		11.6		11.6		12.0		13.3	
Amino Acids[4]	%	Total	Digestible	Total	Digestible	Total	Digestible	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	0.45	0.40	0.65	0.58	0.31	0.26
Methionine	%	0.56	0.50	0.45	0.41	0.38	0.34	0.29	0.26	0.25	0.22	0.19	0.16	0.25	0.22	0.29	0.26	0.14	0.12
M+C	%	1.01	0.91	0.78	0.71	0.65	0.59	0.50	0.45	0.42	0.39	0.33	0.27	0.42	0.38	0.52	0.47	0.31	0.26
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	0.15	0.13	0.16	0.14	0.12	0.10
Threonine	%	0.94	0.85	0.74	0.67	0.61	0.55	0.42	0.38	0.29	0.26	0.22	0.18	0.29	0.26	0.42	0.38	0.22	0.18
Arginine	%	1.58	1.43	1.20	1.08	0.95	0.86	0.69	0.62	0.48	0.43	0.32	0.27	0.49	0.43	0.70	0.63	0.32	0.27
Minerals	%																		
Calcium[3]	%	1.45		1.35		1.15		1.00		0.90		0.85		0.95		1.00		0.95	
Available Phosphorus[3]	%	0.73		0.68		0.58		0.50		0.45		0.42		0.45		0.50		0.45	
Sodium	%	0.17		0.16		0.16		0.16		0.16		0.16		0.16		0.16		0.16	
Chloride	%	0.20		0.20		0.18		0.18		0.18		0.18		0.18		0.18		0.18	
Linoleic Acid	%	1.25		1.20		1.10		1.00		1.00		0.90		1.00		1.00		1.00	

[1] The age and quantities shown are a guide and should be adjusted based on local conditions and the nutritional profile of the diets used.
[2] If hen weights rise above the target line after 12 weeks of age then the Grower 4 ration should be used.
[3] Calcium and available phosphorus levels do not assume any use of phytase enzyme.
[4] Metabolisable energy and digestible amino acids are based on adult chicken values.
[5] Males being fed by quantitative feed management should be fed the Quantity Managed Male Diet.

		Standard Breeder		Cold Weather Breeder		Hot Weather Breeder	
Degrees	^{0}C (^{0}F)	21 – 32 (71 – 90)		7 – 21 (45 – 70)		+32 (+91)	
Protein	%	16.5 – 18.5		15.0 – 16.5		18.5 – 20.0	
Energy	Cals/lb	1280		1270		1316	
	Kcal/kg	2820		2800		2900	
	Mj/kg	11.8		11.7		12.2	
Amino Acids	%	Total	Digestible	Total	Digestible	Total	Digestible
Lysine	%	0.80	0.74	0.75	0.70	0.90	0.84
Methionine	%	0.40	0.37	0.37	0.34	0.45	0.42
M+C	%	0.66	0.61	0.62	0.58	0.72	0.67
Tryptophan	%	0.17	0.16	0.16	0.15	0.18	0.17
Threonine	%	0.57	0.53	0.53	0.49	0.61	0.57
Arginine	%	0.83	0.77	0.78	0.73	0.94	0.87
Minerals							
Calcium	%	2.80		2.70		2.90	
Available Phosphorus	%	0.34		0.32		0.37	
Sodium	%	0.18		0.17		0.20	
Chloride	%	0.21		0.20		0.22	
Potassium	%	0.85		0.85		0.85	
Linoleic Acid	%	1.55		1.50		1.60	

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%.

- The energy levels shown are examples for each diet. The actual energy content may vary by 50kcals/kg upwards or downwards dependant upon ingredients used.
- Under hot conditions, aim for 20% of the energy from fat, providing pellet quality can be maintained. A typical inclusion rate for added fat would be 5%.
- Crude protein levels will vary according to the ingredients used. The minimum levels shown are for guidance only.
- The specifications above assume pellet quality will not limit feed intake. If pellet quality is poor, the nutrient to energy ratios should be increased to maintain nutrient intake.
- Energy and digestible amino acids are based on adult chicken values.

Feeding Guidelines

Standard Breeder
Temperature Guide: 20 – 32^{0}C (70 – 90^{0}F).

Use in areas with temperate summers and in cooler periods in mediterranean climates.

Cold Weather Breeder
Temperature Guide: 7 – 21^{0}C (45 – 70^{0}F).

For use in cool annual climates and winter months when the mean 24 hour temperature is below 10^{0}C.

Hot Weather Breeder
Temperature Guide: >32^{0}C (>90^{0}F).

Use in areas with very hot summer with consistently high temperatures during day and night.