



FEEDING RECOMMENDATIONS FOR COMMERCIAL STOCK
NORTH AND SOUTH AMERICA
 Specifications to Maximize Performance

COMMERCIAL STOCK

| | Ration No. | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | |
|----------------------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|--------|------------|---------|------------|---------|------------|
| TOMS | DAYS | 0-28 | | 29-42 | | 43-63 | | 64-84 | | 85-98 | | 99-112 | | 113-126 | | 127-147 | |
| TOMS | WEEKS | 0-4 | | 5-6 | | 7-9 | | 10-12 | | 13-14 | | 15-16 | | 17-18 | | 19-21 | |
| HENS | DAYS | 0-28 | | 29-42 | | 43-56 | | 57-70 | | 71-84 | | 85-98 | | 99-112 | | 113-140 | |
| HENS | WEEKS | 0-4 | | 5-6 | | 7-8 | | 9-10 | | 11-12 | | 13-14 | | 15-16 | | 17-20 | |
| Protein | % | 26-28 | | 24-26 | | 23-25 | | 20-22 | | 18-20 | | 16-18 | | 15-17 | | 14-16 | |
| Energy | Cals/Lb | 1373 | | 1409 | | 1432 | | 1477 | | 1500 | | 1523 | | 1568 | | 1591 | |
| | Kcals/kg | 3020 | | 3100 | | 3150 | | 3250 | | 3300 | | 3350 | | 3450 | | 3500 | |
| AMINO ACIDS | | Total | Digestible | Total | Digestible | Total | Digestible | Total | Digestible | Total | Digestible | Total | Digestible | Total | Digestible | Total | Digestible |
| Lysine | % | 1.82 | 1.73 | 1.62 | 1.53 | 1.47 | 1.37 | 1.31 | 1.21 | 1.17 | 1.08 | 1.09 | 0.99 | 1.01 | 0.92 | 0.90 | 0.82 |
| Methionine. | | 0.65 | 0.62 | 0.59 | 0.56 | 0.54 | 0.50 | 0.49 | 0.45 | 0.45 | 0.42 | 0.42 | 0.38 | 0.41 | 0.38 | 0.39 | 0.35 |
| M+C | % | 1.18 | 1.12 | 1.07 | 1.01 | 0.99 | 0.92 | 0.90 | 0.82 | 0.82 | 0.75 | 0.76 | 0.69 | 0.75 | 0.68 | 0.70 | 0.64 |
| Threonine | % | 1.06 | 1.01 | 0.96 | 0.90 | 0.88 | 0.82 | 0.80 | 0.73 | 0.73 | 0.67 | 0.67 | 0.61 | 0.62 | 0.57 | 0.57 | 0.52 |
| Tryptophan | % | 0.26 | 0.25 | 0.26 | 0.24 | 0.24 | 0.22 | 0.22 | 0.20 | 0.21 | 0.20 | 0.20 | 0.18 | 0.20 | 0.18 | 0.18 | 0.16 |
| Arginine | % | 1.86 | 1.77 | 1.67 | 1.57 | 1.51 | 1.40 | 1.35 | 1.25 | 1.21 | 1.11 | 1.12 | 1.02 | 1.05 | 0.96 | 0.95 | 0.86 |
| Valine | % | 1.22 | 1.16 | 1.10 | 1.04 | 1.01 | 0.94 | 0.92 | 0.85 | 0.83 | 0.77 | 0.77 | 0.70 | 0.73 | 0.66 | 0.67 | 0.61 |
| iso-Leucine | % | 1.11 | 1.06 | 0.99 | 0.93 | 0.91 | 0.85 | 0.81 | 0.75 | 0.74 | 0.68 | 0.69 | 0.62 | 0.65 | 0.59 | 0.59 | 0.53 |
| MINERALS | | | | | | | | | | | | | | | | | |
| Calcium* | % | 1.49 | | 1.38 | | 1.24 | | 1.14 | | 1.00 | | 1.01 | | 0.93 | | 0.82 | |
| Av. Phos* | % | 0.76 | | 0.69 | | 0.62 | | 0.57 | | 0.50 | | 0.51 | | 0.46 | | 0.41 | |
| NPP** | % | 0.73 | | 0.68 | | 0.63 | | 0.58 | | 0.50 | | 0.51 | | 0.46 | | 0.41 | |
| Sodium | % | 0.17 | | 0.17 | | 0.16 | | 0.16 | | 0.15 | | 0.15 | | 0.15 | | 0.15 | |
| Chloride | % | 0.20 | | 0.20 | | 0.19 | | 0.19 | | 0.18 | | 0.18 | | 0.19 | | 0.19 | |
| Linoleic Acid (18:2) | % | 1.25 | | 1.20 | | 1.10 | | 1.00 | | 1.00 | | 0.90 | | 0.90 | | 0.90 | |

NOTE: This program is based on ages that the rations should be fed. The lbs/kgs per ration should be adjusted to fit the consumption pattern of the bird.

Metabolizable energy and Digestible Amino Acids are based on adult chicken values as at present insufficient information is available to assign specific turkey values.

Phosphorus and Calcium* see revised recommendations tech sheet for more details

NPP** - None Phytate Phosphorus





FEEDING RECOMMENDATIONS FOR COMMERCIAL STOCK

Vitamin and Trace Mineral Additions

| | | STARTING | | STARTING | | GROWER | | EARLY FINISHER | | FINISHER | |
|------------------------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|
| | | 0-3 weeks | | 4-6 weeks | | 7-12 weeks | | 13-16 weeks | | 17 + weeks | |
| | | Wheat Based | Maize Based | Wheat Based | Maize Based | Wheat Based | Maize Based | Wheat Based | Maize Based | Wheat Based | Maize Based |
| ADDED VITAMINS PER KG | | | | | | | | | | | |
| Vitamin A | iu | 12000 | 11000 | | 8000 | 8000 | 7000 | 7000 | 6000 | 6000 | 5000 |
| Vitamin D3 | iu | 4000 | 4000 | 3000 | 3000 | 2500 | 2500 | 2500 | 2500 | 2000 | 2000 |
| Vitamin E | iu | 100 | 100 | 50 | 50 | 30 | 30 | 25 | 25 | 20 | 20 |
| Vitamin K | mg | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Thiamin (B1) | mg | 4 | 4 | 2 | 2 | 2 | 2 | 1.5 | 1.5 | 1.5 | 1.5 |
| Riboflavin (B2) | mg | 10 | 10 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 |
| Nicotinic Acid | mg | 75 | 80 | 60 | 65 | 50 | 55 | 40 | 45 | 40 | 45 |
| Pantothenic Acid | mg | 25 | 28 | 15 | 16 | 15 | 16 | 12 | 12 | 12 | 12 |
| Pyridoxine (B6) | mg | 7 | 6 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 1.5 |
| Biotin | mg | 0.30 | 0.20 | 0.30 | 0.20 | 0.20 | 0.15 | 0.15 | 0.10 | 0.10 | 0.10 |
| Folic Acid | mg | 4 | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Vitamin B12 | mg | 0.030 | 0.030 | 0.020 | 0.020 | 0.015 | 0.015 | 0.015 | 0.015 | 0.010 | 0.010 |
| Choline | mg | 1600 | 1600 | 1200 | 1200 | 600 | 600 | 400 | 400 | 300 | 300 |
| ADDED TRACE MINERALS PER KG | | | | | | | | | | | |
| Copper | mg | | 20 | | 20 | | 10 | | 10 | | 10 |
| Iron | mg | | 100 | | 80 | | 60 | | 45 | | 45 |
| Manganese | mg | | 160 | | 140 | | 140 | | 120 | | 120 |
| Molybdenum | mg | | 0.5 | | - | | - | | - | | - |
| Selenium | mg | | 0.3 | | 0.3 | | 0.3 | | 0.25 | | 0.2 |
| Zinc | mg | | 160 | | 140 | | 140 | | 120 | | 120 |
| Iodine | mg | | 3 | | 2 | | 2 | | 1 | | 1 |



Nicholas

Aviagen Turkeys, Inc. • 31186 Midland Trail, East • Lewisburg, WV 24901 • U.S.A. • Tel: 304 793 2680 • Fax: 304 793 2684

Email: turkeysinc@aviagen.com • www.aviagenturkeys.com

Feed Ingredients -Typical Analysis

| Ingredient | 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 |
| 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 |
| MEAT AND BONE MEAL | 50 | 8.5 | 93 | 2.43 | 1.97 | 0.67 | 0.57 | 1.16 | 0.86 | 0.32 | 0.25 | 1.58 | 1.25 | 3.36 | 2.82 | 2.14 | 1.78 | 1.36 | 1.14 | 2530 | 10.6 | 9.20 | 4.70 | 4.45 | 0.73 | 0.75 | 1.40 | 2000 | 0.80 |
| 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.