FEEDING CHICKENS

- Properly feeding your chickens is one of the most important things you can do.
- Proper nutrition will ensure that the hens continue to lay good, strong, nutritious eggs for you and your family.
- Good nutrition helps produce those good show winners!
FEED COMPONENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>% In Diet</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>50-60%</td>
<td>Energy</td>
</tr>
<tr>
<td>Soybean Meal</td>
<td>20-30%</td>
<td>Protein</td>
</tr>
<tr>
<td>Distillers Grains</td>
<td>5-20%</td>
<td>Energy and Protein</td>
</tr>
<tr>
<td>Limestone</td>
<td>4-7%</td>
<td>Calcium/Egg Shell</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.3-0.5%</td>
<td>Calcium/Egg Shell</td>
</tr>
<tr>
<td>Oil</td>
<td>1%</td>
<td>Energy</td>
</tr>
<tr>
<td>Salt</td>
<td>0.40-0.60%</td>
<td>Bodily Functions</td>
</tr>
<tr>
<td>Vit. and Minerals</td>
<td>0.30-.50%</td>
<td>Bodily Functions</td>
</tr>
<tr>
<td>Amino Acids</td>
<td>0.30-1.5%</td>
<td>Protein</td>
</tr>
</tbody>
</table>

OTHER FEED INGREDIENTS

Energy
- Corn
- Wheat
- Sorghum(Milo)
- Distillers Grains

Calcium
- Limestone
- Oyster Shell
- Egg Shells

Protein
- Meat and Bone Meal
- Feather Meal
- Sunflower Meal
- Fish Meal
- Distillers Grains

Fat
- Vegetable Oil (Corn or Soy)
- Poultry Fat
- Beef Tallow
PURPOSE OF THE INGREDIENTS

**Energy (Carbohydrates)**
- Bodily Functions
- Digestion
- Egg Laying

**Protein**
- Muscle Formation
- Egg Formation
- Cell Membrane Formation
- Feather Formation

**Calcium**
- Bone Formation
- Bone Maintenance
- Eggshell Formation

**Fat**
- Binder
- Flavor
- Fatty Acids (Omega 3 or 6)
- Energy

VITAMINS AND MINERALS

- Needed in very small amount
- Essential to the health of the bird
- Macro minerals
  - Calcium, Phosphorus, Sodium Chloride (Salt)
- Micro minerals
  - Manganese, Cobalt, Selenium, Magnesium, Iron etc.
- Vitamins
  - Vitamins A, E, D₃, K (Fat Soluble)
  - Vitamins B (Niacin, B₁₂, Biotin, Riboflavin) Vit. C (Water Soluble)
FEEDS AND FEEDING

- Chickens should have access to feed at all times
- Some supplementation with table scraps is okay but should not be the bulk of their diet.
- Grass and insects are beneficial feedstuffs for chickens.
- Depending on the breed, age and weather, your hen will eat between 110-250 grams of feed per day.
  
  (0.24 – 0.55 lbs of feed per day).
- Oyster shell or grit is recommended for proper digestion and calcium levels.
- Always provide clean, fresh water daily.
FEEDS AND FEEDING

To ensure proper nutrition:
Check bag labels to ensure you are feeding the right feed to the right aged birds.
Do not feed moldy or insect-infested feed.
Keep feed away from rodents or birds.

Medicated vs Non-Medicated
Medicated feed often has Amprolium which is used to prevent coccidiosis. It is not harmful to humans.

LAYING HEN VS BROILER DIETS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>60.0</td>
</tr>
<tr>
<td>Soybean Meal</td>
<td>28.0</td>
</tr>
<tr>
<td>Fat (Oil)</td>
<td>2.0</td>
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<tr>
<td>Limestone</td>
<td>7.8</td>
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<tr>
<td>Dicalcium Phosphate</td>
<td>1.0</td>
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<tr>
<td>Salt</td>
<td>0.35</td>
</tr>
<tr>
<td>Vit/Mineral Premix</td>
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<tr>
<td>Methionine</td>
<td>0.10</td>
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<tr>
<td>Total</td>
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<tr>
<td>Energy Kcal/kg</td>
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<tr>
<td>Crude Protein</td>
<td>18.4</td>
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<tr>
<td>Calcium</td>
<td>3.30-4.40</td>
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<tr>
<td>Av. Phosphorus</td>
<td>0.41</td>
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<tr>
<td>Sodium</td>
<td>0.19</td>
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<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>43.69</td>
</tr>
<tr>
<td>Soybean Meal</td>
<td>35.67</td>
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<tr>
<td>Wheat</td>
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<tr>
<td>Oil</td>
<td>1.85</td>
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<tr>
<td>Dicalcium Phos.</td>
<td>1.3</td>
</tr>
<tr>
<td>Limestone</td>
<td>1.25</td>
</tr>
<tr>
<td>Salt</td>
<td>0.3</td>
</tr>
<tr>
<td>Vitamin Premix</td>
<td>0.25</td>
</tr>
<tr>
<td>Mineral Premix</td>
<td>0.25</td>
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<tr>
<td>DL-Methionine</td>
<td>0.32</td>
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<tr>
<td>L-Lysine</td>
<td>0.17</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
<tr>
<td>Energy Kcal/kg</td>
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</tr>
<tr>
<td>Crude Protein</td>
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<tr>
<td>Calcium</td>
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<tr>
<td>Av. Phosphorus</td>
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<tr>
<td>Sodium</td>
<td>0.14</td>
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</table>
EXTRAS

- Should not be the main component of the diet
- Types of Treats:
  - Table Scraps (No meat products)
  - Fruit
  - Vegetables
  - Sunflower seeds (Oil from seeds is great for show birds)
  - Scratch Grains (Cracked Corn, Milo, Oats)
  - Insects, grass, weeds.

DOLLARS AND CENTS - EGGS

- 50 lbs of feed = $15 and 3 lbs of feed per doz. eggs
- $15 per bag / 50 lb bag of feed = $0.30 per lb of feed
- Assuming 3 lbs to produce 1 dozen eggs x $0.30 per lb feed
- Equals $0.90 to produce 1 dozen eggs for one hen.

Equaling ~ $0.08 per egg!
DOLLARS AND CENTS-BROILERS

- Assuming 50lbs at $15.00 per bag
- The cost is roughly $.30 per lb of feed
- A 6 lb broiler will consume around 12 lbs of feed.
- Thus, 12 lbs x $.30 per lb = $3.60 per broiler in feed costs.
- $3.60 / 6 lbs = $.60 per lb of muscle.

- Other factors like weather, space, etc. can influence these figures.

WELFARE

- Maintain a balanced and complete diet.
- Avoid extra items that off balance the feed
- Proper nutrition eliminates nutritional deficiencies.
- Keep feed dry and away from rodents, insects and birds.
- Maintaining proper protein and amino acid levels decreases bird cannibalism.
THANK YOU!

QUESTIONS?

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