This Cobb Breeder Management Supplement should be used with the Cobb Breeder Management Guide to assist you in building your program.

Management must meet the basic needs of the stock but also be optimized to attain the full potential of the breed. Our recommendations in this supplement are based on current scientific knowledge and practical experience and reflect the genetic potential of the Cobb hens based on Total Eggs and Hatch Percent records taken from the top 25% of Cobb flocks.

This supplement should be used as a guide only and adapted locally according to your own experience when projecting performance from all flocks in a particular operation. You should be aware of any local legislation which may influence the management practices that you choose to adopt.

Cobb continues to expand the variety of breed crosses to meet global customer needs and expectations. Cobb technical representatives are always available for any questions and assistance.

For more information visit https://www.cobb-vantress.com/resource

Today’s modern breeder chickens are more efficient, more productive, and more robust than prior generations. This progress is due to improved genetics and advances in husbandry methods that enhance the longevity, welfare outcomes and performance of breeder chickens at rearing and laying farms.
Management Highlights

- Feeder space and flock uniformity are essential to achieve optimum performance. Research has shown that cumulative protein intake between 0.36 to 0.4 lb (165 to 180g) at 28 days (pullets) can have a positive impact on flock uniformity, bone density, feathering, egg size and production.

- Observe the flock during feeding as often as possible – weekly at a minimum. This will help determine the proper feeder space and any feed distribution issue that can occur.

- Ensure adequate water intake and nipples per bird.

- Ideal brooding conditions (feed, light, air and water management) must be implemented and closely monitored at all times to ensure physiological requirements are being met for optimum bird comfort.

- Flock performance is directly correlated to flock condition at light stimulation. The goal at light stimulation is that >85% of the pullets must have pelvic fat, and 95% should have a fleshing score between #3 to #4.

- To accomplish this, it is important to achieve the fleshing target at 12, 16, and 20 weeks of age.
Standard Fleshing and Pelvic Fat

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- If fleshing is considerably behind at 16 and 20 weeks, the target move age (and lighting) should be delayed until 154 days or later if necessary. Bodyweight (BW) should increase a minimum of 36% between 16 to 20 weeks to facilitate fleshing and pelvic fat deposition. Feed increases between 14 to 20 weeks should be accelerated to achieve the target weight, fleshing and fat deposition at lighting.

- The fleshing and fat scores at 19 and 20 weeks of age determine the correct age for lighting. All rearing data including the BW curve, feeding curve, feed formulation, fleshing and pelvic fat scoring should be used to make this decision.

- It is essential for males and females to have sexual synchronization at transfer. If males are ahead of females, delay moving males by up to 1 week after females.
Male and Female Weight Differential

Calculate the weight differential between males and females. Place fewer males if the weight differential is greater than 30%.

Example at 20 Weeks
Cobb700 = 4.95 lb (2247 g); Cobb Vantage Male = 5.95 lb (2699 g);
(5.95 - 4.95 lb) / 4.95 x 100% = 0.202 or 20.2%

Example at 22 Weeks
Cobb700 = 5.65 lb (2565 g); Cobb Vantage Male = 6.75 lb (3062 g);
(6.75 - 5.65) / 5.65 x 100% = 0.195 or 19.5%

✔ If males are consistently ahead of females, and housing constraints don’t allow a delayed move, adjust the male BW program from 12 to 20 weeks of age to a lighter target weight at move. Please contact your tech service representative for assistance.

✔ Feed reduction post peak is less aggressive than with the Cobb500. A 5 to 8% cumulative reduction from the peak feed amount to 65 weeks is not uncommon.

✔ Nest management for the mechanical individual nest should ensure a maximum of 5.5 hens per nest hole. Fewer hens per nest hole generally results in fewer non-nest eggs.
The Essentials

- **Uniformity** - Required for the proper feeding of a flock to get good results.

- **Feed distribution** - The primary way to achieve and maintain good uniformity. Ensure uniform feed distribution is done in the dark (<3 minutes with chain feeders).

- **Feed guide** - Establish a feeding curve that works for the 700 female BW curve in your operation. Follow this feeding curve and only make minor adjustments if BW deviates more than 2% from the standard.

- **Don’t over feed protein** - Too much protein can result in over weight problems before 16 weeks of age. The birds will put on too much breast meat and this makes it harder to get enough fat on the females at 20 weeks of age.

- **BW (1 to 16 weeks)** - Avoid over weight issues in the first 16 weeks of the rearing period.

- **BW increase (16 to 20 weeks)** - A BW increase of 36% should occur and this is normally obtained by increasing the feed by 40% in this same period.

- **Fat** - At least 85% of the birds must have pelvic fat before lighting.
Weights correspond to the weekly anniversary date. Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6 to 7 hours after the last feeding. Another option is to weigh the birds after the lights come on and before feeding takes place. Please consult with your Cobb Technical Advisor for feed and light programs.

*Please refer to the Cobb Breeder Management Guide for general flock management recommendations, uniformity management, and guidelines concerning post peak feeding. Flock uniformity of 70-78% or 8-10% CV is preferred by 15 to 16 weeks to achieve proper condition prior to light stimulation.

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*Egg weights are dependent on the BW and production level of the hens, as well as the level of nutrition being fed to the flock. These numbers are a guide only, and could vary considerably according to management conditions.*
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**Cobb 700™ (Vantage Male) Rearing Management Record (Pounds)**

Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6-7 hours after the last feeding.

| Age | Weeks | Days | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 |
|------|-------|------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---

- **Female BW**
  - Female BW Target (C700)
  - Female BW Actual
  - Weekly Gain
  - Female Uniformity

- **Female Feed**
  - Female Feed Actual (lbs/100)
  - Feed Energy
  - Feed Type

- **Female Depletion**
  - Female # of Birds
  - Female Weekly (%)
  - Female Cumulative (%)

- **Male BW**
  - Male BW Target (Cobb Vantage Male)
  - Male BW Actual
  - Male Uniformity

- **Male Feed**
  - Male Feed Actual (lbs/100)
  - Feed Energy
  - Feed Type

- **Male Depletion**
  - Male # of Birds
  - Male Weekly (%)
  - Male Cumulative (%)

**Light Hours**

**Water Consumption**

**Temperature**
Female BW Target (C700)  
Male BW Target (Cobb Vantage Male)  
Female BW 16-20w. Minimum turn-up 36%
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Cobb 700™ (Vantage Male) Laying Management Record (Pounds)
## Cobb 700™ (Vantage Male) Rearing Management Record (Grams)

**Between 2 to 22 weeks, weights should be taken when the crop is empty (dry BW) or at least 6-7 hours after the last feeding.**

| Age | Weeks | Days | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Female BW Target (700) | 150 | 285 | 410 | 522 | 613 | 704 | 795 | 885 | 976 | 1067 | 1158 | 1249 | 1339 | 1430 | 1564 | 1657 | 1793 | 1930 | 2088 | 2247 | 2406 | 2565 | 2724 | 2883 | 3042 |
| Female BW Actual | 145 | 340 | 522 | 658 | 794 | 930 | 1066 | 1202 | 1338 | 1451 | 1565 | 1701 | 1814 | 1928 | 2041 | 2155 | 2291 | 2427 | 2563 | 2699 | 2926 | 3062 | 3198 | 3334 | 3470 |
| Female Weekly Gain | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female Uniformity | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female Feed Actual (g/b/d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feed Energy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feed Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female # of Birds | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female Weekly (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Female Cumulative (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male BW Target (Cobb Vantage Male) | 145 | 340 | 522 | 658 | 794 | 930 | 1066 | 1202 | 1338 | 1451 | 1565 | 1701 | 1814 | 1928 | 2041 | 2155 | 2291 | 2427 | 2563 | 2699 | 2926 | 3062 | 3198 | 3334 | 3470 |
| Male BW Actual | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male Uniformity | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male Feed Actual (g/b/d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feed Energy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feed Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male # of Birds | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male Weekly (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Male Cumulative (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Light Hours**

**Water Consumption**

**Temperature**
Female BW Target (C700)
Male BW Target (Cobb Vantage Male)

Female BW 16-20w. Minimum turn-up 36%
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<th>Male No.</th>
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</table>

**Cobb 700™ (Vantage Male) Laying Management Record (Grams)**

**Breeders Farm**
- **Company**
- **Rearing Farm**
- **Placement Date**
- **Number Placed**
- **Breeder Farm**
- **Date Moved**
- **Number Transferred**
- **Point-of-lay Number**

**House Number**
- **Number Placed**
- **House Number**
- **Date Placed**
- **Number Transferred**
- **Point-of-lay Number**

**Age at Light Stimulation**
- **Age (Wks)**
- **Date**
- **Female No.**
- **Male No.**
- Total Eggs %HW Actual
- Female BW Target (g/b/d)
- Female BW Actual
- Male Feed Actual (g/b/d)
- Vantage Male BW Target
- Male BW Actual
- Hatch % Actual
**Change to male feed is suggested at 28 weeks of age. However it can be earlier at 21 to 22 weeks if males are consuming feed from female feeders.**

a. If the energy level needs to be adjusted for local conditions, then all other nutrients (protein/amino acids) need to be adjusted at the same ratio.

b. Assuming daily peak metabolizable energy consumption of 445 kcal/kg @ 30 weeks of age.

c. Assuming daily peak metabolizable energy consumption of 400 kcal/kg @ 58 weeks of age.

### Recommended Nutrient Levels for Cobb700 Parent Stock Breeders

<table>
<thead>
<tr>
<th>Phase Age (Days)</th>
<th>Unit</th>
<th>Starter 0 - 28</th>
<th>Grower 29 - 105 d</th>
<th>Developer 106 - 1st Egg</th>
<th>Breeder 1 1st Egg - 266</th>
<th>Breeder 2 &gt;267 d</th>
<th>Male* &gt;168 d</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metabolizable Energy&lt;sup&gt;a&lt;/sup&gt;</td>
<td>MJ/kg</td>
<td>12.13</td>
<td>11.30</td>
<td>11.72</td>
<td>11.92</td>
<td>12.13</td>
<td>11.30</td>
</tr>
<tr>
<td>kcal/kg</td>
<td>2900</td>
<td>2700</td>
<td>2800</td>
<td>2850</td>
<td>2900</td>
<td>2700</td>
<td></td>
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<tr>
<td>kcal/lb</td>
<td>1315</td>
<td>1225</td>
<td>1270</td>
<td>1293</td>
<td>1315</td>
<td>1225</td>
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<tr>
<td>Crude Protein</td>
<td>%</td>
<td>19.0</td>
<td>14.5</td>
<td>15.0</td>
<td>15.0</td>
<td>14.5</td>
<td>13.0</td>
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<tr>
<td>Calcium</td>
<td>%</td>
<td>0.95</td>
<td>0.95</td>
<td>1.20</td>
<td>3.00</td>
<td>3.20</td>
<td>0.95</td>
</tr>
<tr>
<td>Av. Phosphorus</td>
<td>%</td>
<td>0.45</td>
<td>0.42</td>
<td>0.42</td>
<td>0.42</td>
<td>0.38</td>
<td>0.42</td>
</tr>
<tr>
<td>Sodium</td>
<td>%</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
</tr>
<tr>
<td>Chloride</td>
<td>%</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
<td>0.15 - 0.24</td>
</tr>
<tr>
<td>Potassium</td>
<td>%</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
<td>0.60</td>
</tr>
<tr>
<td>Linoleic Acid</td>
<td>%</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.25</td>
<td>1.25</td>
<td>1.00</td>
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</table>

<table>
<thead>
<tr>
<th>Amino Acids</th>
<th>Unit</th>
<th>Dig.</th>
<th>Total</th>
<th>Dig.</th>
<th>Total</th>
<th>Dig.</th>
<th>Total</th>
<th>Dig.</th>
<th>Total</th>
<th>Dig.</th>
<th>Total</th>
<th>Dig.</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Lysine</td>
<td>%</td>
<td>0.93</td>
<td>1.04</td>
<td>0.60</td>
<td>0.72</td>
<td>0.63</td>
<td>0.74</td>
<td>0.63</td>
<td>0.72</td>
<td>0.60</td>
<td>0.68</td>
<td>0.50</td>
<td>0.58</td>
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<tr>
<td>Methionine</td>
<td>%</td>
<td>0.42</td>
<td>0.46</td>
<td>0.31</td>
<td>0.33</td>
<td>0.33</td>
<td>0.33</td>
<td>0.33</td>
<td>0.37</td>
<td>0.31</td>
<td>0.35</td>
<td>0.28</td>
<td>0.32</td>
</tr>
<tr>
<td>M + C</td>
<td>%</td>
<td>0.70</td>
<td>0.78</td>
<td>0.51</td>
<td>0.63</td>
<td>0.54</td>
<td>0.63</td>
<td>0.55</td>
<td>0.62</td>
<td>0.52</td>
<td>0.59</td>
<td>0.48</td>
<td>0.55</td>
</tr>
<tr>
<td>Tryptophan</td>
<td>%</td>
<td>0.20</td>
<td>0.23</td>
<td>0.13</td>
<td>0.19</td>
<td>0.14</td>
<td>0.19</td>
<td>0.14</td>
<td>0.16</td>
<td>0.13</td>
<td>0.15</td>
<td>0.12</td>
<td>0.14</td>
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<tr>
<td>Threonine</td>
<td>%</td>
<td>0.65</td>
<td>0.73</td>
<td>0.45</td>
<td>0.61</td>
<td>0.47</td>
<td>0.61</td>
<td>0.47</td>
<td>0.55</td>
<td>0.45</td>
<td>0.52</td>
<td>0.44</td>
<td>0.51</td>
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<tr>
<td>Arginine</td>
<td>%</td>
<td>0.98</td>
<td>1.10</td>
<td>0.66</td>
<td>0.74</td>
<td>0.69</td>
<td>0.7</td>
<td>0.69</td>
<td>0.79</td>
<td>0.66</td>
<td>0.75</td>
<td>0.55</td>
<td>0.63</td>
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<tr>
<td>Valine</td>
<td>%</td>
<td>0.67</td>
<td>0.70</td>
<td>0.45</td>
<td>0.55</td>
<td>0.48</td>
<td>0.56</td>
<td>0.47</td>
<td>0.54</td>
<td>0.45</td>
<td>0.51</td>
<td>0.38</td>
<td>0.43</td>
</tr>
<tr>
<td>Isoleucine</td>
<td>%</td>
<td>0.63</td>
<td>0.73</td>
<td>0.42</td>
<td>0.61</td>
<td>0.44</td>
<td>0.61</td>
<td>0.44</td>
<td>0.50</td>
<td>0.42</td>
<td>0.48</td>
<td>0.40</td>
<td>0.46</td>
</tr>
</tbody>
</table>

*Change to male feed is suggested at 28 weeks of age. However it can be earlier at 21 to 22 weeks if males are consuming feed from female feeders.*

---

**Notes:**
- a. If the energy level needs to be adjusted for local conditions, then all other nutrients (protein/amino acids) need to be adjusted at the same ratio.
- b. Assuming daily peak metabolizable energy consumption of 445 kcal/kg @ 30 weeks of age.
- c. Assuming daily peak metabolizable energy consumption of 400 kcal/kg @ 58 weeks of age.
Supplementary vitamins and trace elements should always be reviewed to ensure total levels do not exceed those set in local legislation.

### Supplementary Vitamins and Trace Elements

**Recommended Supplementary Levels of Vitamins and Trace Elements Per Metric Tonne Basis**

<table>
<thead>
<tr>
<th>Nutrients</th>
<th>Unit</th>
<th>Starter/Developer/Males</th>
<th>Breeders in Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vit. A (Maize Diets)</td>
<td>KIU</td>
<td>10,000</td>
<td>12,000</td>
</tr>
<tr>
<td>Vit A (Wheat Diets)</td>
<td>KIU</td>
<td>11,000</td>
<td>13,000</td>
</tr>
<tr>
<td>Vit. D3</td>
<td>KIU</td>
<td>3,500</td>
<td>3,500</td>
</tr>
<tr>
<td>Vit. E</td>
<td>KIU</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Vit. K</td>
<td>g</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Thiamine</td>
<td>g</td>
<td>2.75</td>
<td>3</td>
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<tr>
<td>Riboflavin</td>
<td>g</td>
<td>8</td>
<td>13</td>
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<tr>
<td>Pantothenic Acid</td>
<td>g</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>Niacin</td>
<td>g</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Pyridoxine</td>
<td>g</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Folac Acid</td>
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<td>2</td>
<td>3</td>
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<tr>
<td>Vit. B12</td>
<td>g</td>
<td>0.025</td>
<td>0.035</td>
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<tr>
<td>Biotin (Maize Diets)</td>
<td>g</td>
<td>0.25</td>
<td>0.3</td>
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<tr>
<td>Biotin (Wheat Diets)</td>
<td>g</td>
<td>0.3</td>
<td>0.375</td>
</tr>
<tr>
<td>Choline</td>
<td>g</td>
<td>500</td>
<td>500</td>
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<tr>
<td>Manganese</td>
<td>g</td>
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<td>120</td>
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<td>g</td>
<td>100</td>
<td>110</td>
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<tr>
<td>Iron</td>
<td>g</td>
<td>20 - 50</td>
<td>40 - 55</td>
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<tr>
<td>Copper</td>
<td>g</td>
<td>10 - 15</td>
<td>10 - 15</td>
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<td>Iodine</td>
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<td>1.5</td>
<td>2.0</td>
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<tr>
<td>Selenium</td>
<td>g</td>
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</tr>
</tbody>
</table>

**KIU** = thousand international units

**g** = grams

Supplementary levels of vitamins and trace elements should always be reviewed to ensure total levels do not exceed those set in local legislation.

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