AQUA-DEE® IMPROVES BROILER PERFORMANCE

A large integrated broiler company was experiencing bone development problems with growing birds. When posting birds they noted a widened growth plate at the tibia. Mortality and condemnations were excessive.

In consultation with Dawe’s Laboratories, this integrator designed a trial using AQUA-DEE®, our water-miscible source of 2 million I.C.U. of Vitamin D3 per ounce. Ten houses (342,000 broilers) served as controls. Another ten houses (454,700 broilers) received one-half ounce of AQUA-DEE® per 128 gallons of drinking water. AQUA-DEE® was administered for one day, than withdrawn for the following three days. This regimen was repeated from 3 days of age until the birds were 6 weeks old. They were marketed at 7 weeks of age.

The study demonstrated dramatic benefits from the use of AQUA-DEE®:

1. Bone development problems and the incidence of widened tibial growth plates were significantly reduced.

2. Livability was 3.0% greater through the fourth week, at which time all houses experienced an outbreak of bronchitis.

3. Birds sent to the processing plant increased 1.6%.

4. Condemnations were reduced:

<table>
<thead>
<tr>
<th></th>
<th>CONTROL</th>
<th>AQUA-DEE</th>
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<tbody>
<tr>
<td><strong>WHOLE BIRD CONDEMNATION</strong></td>
<td></td>
<td></td>
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<tr>
<td>% OF BIRDS</td>
<td>3.05</td>
<td>2.40</td>
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<tr>
<td><strong>PARTS CONDEMNATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% OF WEIGHT</td>
<td>1.24</td>
<td>0.98</td>
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<tr>
<td><strong>TOTAL CONDEMNATION</strong></td>
<td></td>
<td></td>
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<tr>
<td>% OF (WHOLE BIRD WEIGHT + PARTS WEIGHT)</td>
<td>3.64</td>
<td>2.96</td>
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ECONOMIC ANALYSIS

For every $1.00 spent on AQUA-DEE®, the integrator’s economic value increased by $24.47. The economics are based on:

- Market value/live bird = $1.30
- Average live weight = 4.90 lbs.
- Feed efficiency = 2.06
- Feed cost = $.075/lb.
- Carcass yield = 72.5%
- AQUA-DEE® cost = $158.75/five gallons (dealer price)

Values are calculated per 100,000 birds

BENEFITS

A. 1.6% more birds marketed
   (1600 birds) $ 868.72

B. 0.68% lower total condemnation
   (2416 more lbs. processed) $ 881.84

GROSS ECONOMIC GAIN $1750.56

COSTS

A. AQUA-DEE®, 6-week treatment
   (9 quarts) $ 71.55

NET ECONOMIC GAIN $1679.01

This particular broiler integrator was so pleased with these results that AQUA-DEE® Supplementation is now used in its program for life cycle feeding of broilers. We would be happy to discuss with you how AQUA-DEE® and its companion water-dispersible products can improve your bottom line, too.

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