

Table 4 Effect of feeding treatments on overall growth performance and cost effectiveness of broiler chickens

| Parameters | Feeding Treatments | | | | | |
|--|----------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| | 0% | 10% | 20% | 30% | 40% | 50% |
| Initial liveweight bird ⁻¹ (g) | 262.31±0.38 | 261.65±0.24 | 260.93±0.23 | 261.27±0.51 | 260.40±0.61 | 262.05±0.36 |
| Final liveweight bird ⁻¹ (g) | 1850.70±16.63 ^b | 1829.20±17.2 ^b | 1805.40±14.3 ^b | 1907.50±36.24 ^b | 2055.20±66.19 ^a | 1824.60±55.59 ^b |
| Daily weight gain bird ⁻¹ (g) | 37.81±0.40 ^b | 37.32±0.41 ^b | 36.77±0.34 ^b | 39.19±0.85 ^b | 42.73±1.56 ^a | 37.20±1.29 ^b |
| Daily feed intake bird ⁻¹ (g) | 122.59±0.28 ^c | 122.48±0.20 ^c | 122.56±0.27 ^c | 122.65±0.30 ^c | 123.69±0.42 ^b | 125.05±0.11 ^a |
| Feed conversion ratio | 3.24±0.03 ^a | 3.28±0.03 ^a | 3.33±0.04 ^a | 3.13±0.06 ^a | 2.90±0.09 ^b | 3.37±0.12 ^a |
| Daily protein intake bird ⁻¹ | 24.74±0.06 ^a | 24.42±0.04 ^b | 24.06±0.05 ^c | 24.33±0.06 ^b | 24.61±0.08 ^a | 22.72±0.02 ^d |
| Protein efficiency ratio | 1.54±0.01 ^b | 1.53±0.01 ^b | 1.53±0.02 ^b | 1.61±0.03 ^b | 1.74±0.06 ^a | 1.53±0.06 ^b |
| Mortality (%) | 0.00±0.00 | 0.00±0.00 | 0.00±0.00 | 0.00±0.00 | 0.00±0.00 | 0.00±0.00 |
| Cost of feed/kg of diet (₦) | 50.38±0.00 | 49.71±0.00 | 48.49±0.00 | 47.30±0.00 | 44.99±0.00 | 51.97±0.00 |
| Cost of daily feed intake bird ⁻¹ | 6.18±0.01 ^b | 6.09±0.01 ^c | 5.94±0.01 ^d | 5.80±0.01 ^c | 5.56±0.01 ^f | 6.49±0.01 ^a |
| Cost of feed/kg weight gain | 163.34±1.53 ^b | 163.17±1.58 ^b | 161.55±1.79 ^b | 148.14±2.81 ^c | 130.54±4.34 ^d | 175.11±6.21 ^a |

Note: a-f Means within same row with different superscripts differ significantly (P<0.05), SEM.- Standard Error of Means