

## Effect of feed dilution using date palm seed powder at different ages on some productive and economic traits of broiler in Al-Muthanna province

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**ABSTRACT:**

This experiment was conducted in the poultry farm of the Research Station and Agricultural Experiments Center of the Agriculture College of Al-Muthanna University from 25.10.2017 to 5.12.2017. Determination of feed dilution using date palm seed powder at different ages on some productive and economic traits of broiler Ross308 was carried out in the Al-Muthanna province at year 2017. 240 one-day-old chickens were used for the analysis, randomly allocated to four feeds. They were restricted by date palm powder 20% [0 day ( $T_1$ ), 7-14 days ( $T_2$ ), 14-21 days ( $T_3$ ) and 21-28 days ( $T_4$ )]. The results of the experiments showed that a significant increase ( $P \leq 0.05$ ) in  $T_2$  was seen on the productive traits (weekly body weight, cumulative weight gain, feed conversion and production index), with a significant decrease ( $P \leq 0.05$ ) on feed consumption compared with other treatments. Economic efficiency indicators showed a significant increase ( $P \leq 0.05$ ) in  $T_2$  on the net cash income, economic profit, net farm income, return on labor farm, total added value and profit margin. Analysis of cost items indicated that the feed costs were the largest about 51%, followed by the cost of broiler purchasing and transport which amounted to 21.5% and 10.3%, respectively.

**Keywords:**

Dilution feed, Date palm seeds powder, Productive and economic traits, Broiler.