

## عنوان مقاله:

The effects of supplemental iron and time periods on growth performance, carcass characteristics and iron contents of breast muscle in broilers

## محل انتشار:

دومین کنفرانس بین المللی و ششمین کنفرانس ملی کشاورزی ارگانیک و مرسوم (سال: 1398)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

This experiment was performed by 450 one-day-old (Ross 308) male chicks in a 3×3 factorial design with 3 levels of supplemental Fe (0.0, 40 and 80 mg/kg) and 3 time periods (total, T: from 1-42 d; grower and finisher, GF: from 11-42 d and finisher, F: from 25-42 d). Each treatment had 5 replicate pens with 10 birds per replicate. The results showed that feeding 80 mg/kg Fe at T period significantly decreased the ADFI ( $P<0.001$ ). Also, adding FeSO<sub>4</sub> significantly ( $P<0.05$ ) increased the yield of thigh and breast muscles at T and GF periods, respectively. Compared with birds fed the diet supplemented with 80 mg/kg of FeSO<sub>4</sub>, the birds fed control diet and 40 mg/kg FeSO<sub>4</sub> significantly influenced the abdominal fat during the T period ( $P<0.001$ ). Furthermore, adding 80 mg/kg of FeSO<sub>4</sub> during the T period increased the iron content of breast meat compared to other dietary periods. It was concluded that use of 40 and 80 mg/kg FeSO<sub>4</sub> had no remarkable effect on performance, but dietary supplementation of 80 mg/kg Fe during T period caused the higher Fe deposition of breast meat in broilers.

## کلمات کلیدی:

.broiler, FeSO<sub>4</sub>, time periods, performance, breast muscle

## لینک ثابت مقاله در پایگاه سیویلیکا:

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