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## Effects of different levels of rapeseed meal on broiler performance

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In this research rapeseed in five different quantities 0%, 25%, 50%, 75%, and 100% was replaced in the ration of broilers with soybean. The study was conducted on 500 one-day old chicks in a completely randomized design (CRD) with 4replication and 25 birds in each replication. The birds were fed with experimental diet for 8 weeks. During the experiment feed intake was measured daily and the body weight by the end of each week, consequently based on this measurements the weekly feed intake, daily and weekly weight gain in the starter period (0-3 weeks), growther (3-6 weeks), and finisher (6-8 weeks) was determined separately. In the starter period the difference between different levels of rapeseed due to daily weight gain was significant ( $P<0.01$ ) and the highest weight gain was in the ration without rapeseed and the lowest weight gain was in the ration with 100% replacement. But the difference between the group without rapeseed and the group with 25% replacement was not significant. In the Grower period the differences between different levels of rapeseed due to daily gain weight was significant ( $P<0.01$ ) and the highest gain weight was in the ration with 25% replacement and the lowest weight gain was in the ration with 100% replacement. In the finisher period the differences among different levels of rapeseed in the level of ( $P<0.05$ ) is significant but in the level of ( $P<0.01$ ) is not significant and this shows the decrease in the differences among different levels of rapeseed in comparison with soybean as the chicks grow older. In this period the highest daily weight gain belonged to the group with 50% replacement and the lowest weight gain belonged to the group with 100% of replacement. This research showed that 25% replacement of rapeseed in the starter period (0-3 weeks), 50% in the Growther period (3-6 weeks), and 75% in the Finisher period (6-8 weeks) with soybean without any negative effect would be possible.

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