

## **The Efferent of Different Levels of Recycled Soybean Oil(RSO) on Growth and Performance of Broilers**

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**Abstract :** In this experiment the effect of recycled soybean oil (RSO) on the growth and performance carcass of broiler was investigated. The percentages of recycled soybean oil (RSO) used in this experiment were 0, 2, 4, 6 and 8. In this regard, 300 one-day-old broilers were selected randomly consisting of five treatments and three replicates(20 chickens per replicate). The chicks were kept in an accumulated manner for the first week, then divided between treatments and kept until they reached the age of 42 days. Body weight at 21 and 42, weight gain, food intake and food conversion ratio in starter (0-21 d), finisher (21-42 d) and overall were measured. At the end of the experiment (42 days-old) 2 chicks from each replicate which had the nearest weight to the average group in their group were selected, slaughtered and different parts of their carcass were weight separately. The result showed that the rate of feed intake and feed conversion coefficient have significantly increased with higher levels of recycled soybean oil. There was not a significant different between experimental groups for liver, heart, intestine and the weight of carcass. Results from this experiment showed that it is possible to use recycled soybean oil for up to 8 percent of food ration for broiler chicks without any significant effects on carcass quality.

**Keywords :** broiler, recycled soybean oil (RSO), growth, performance

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