

## **ABSTRACT**

MS. Thesis

### **EFFECTS OF USING DIFFERENT LEVELS OF COTTONSEED MEAL ON BROILERS**

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The aim of this study was to determinate the effects of different levels of (0 %, 5 %, 10 %, 15 %) cottonseed meal (CSM) on the performance, some organ weights and some blood parameters of broiler chickens. A total of 360 one-day-old Ross 308 broiler chickens were used in this experiment. Chicks were divided into 4 groups; one control group (0 % CSM) and three experimental groups (5 %, 10 %, 15 % CSM). Each trial group was further subdivided in 3 groups each containing 30 chickens. All animals were given starter feed in the first 3 weeks and the finisher feed between the 4 th and the 6 th weeks. The experiment lasted for 42 days.

In the trial, it was concluded there is no statistical difference in the body weight, body weight gain and feed utilization among the experimental groups ( $P>0,05$ ). Besides, feed consumption values are significantly different ( $P<0,05$ ). The group 10 % CSM shows highest value in feed consumption ratio. Mortality rates were not important in all experimental groups. No statistical differences between the heart and liver weights of the males in the experimental groups ( $P>0,05$ ). The males of control and 15 % CSM groups are significantly different in liver weights ( $P<0,05$ ). There is no differences between the heart weights of the females between the groups but the liver weights of the females in 5 % and 15 % CSM groups and hot carcass yeilds of the females in control and 15 % CSM groups are significantly different ( $P<0,05$ ). Result of blood parameters were the same in both control and experimental groups. The highest profit in the economical analysis is gotten from the control group. The results of the study shows that using 15 % CSM in broiler feed can be used without any adverse effects on performance, some organ weights and blood parameter of broilers but economical profit is slightly reduced by using PTK in the broiler diets.

**2007, 46 pages**

#### **Key words**

Broiler, cottonseed meal, blood parameters, performance, economical profit