CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY

Name(s)

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Project Number

33220

Project Title

What Is the Effect of MLG-50 Plus in Chickens at the Onset of Lay, Egg Weight, and Weight Gain?

Abstract

Objectives/Goals

My project objective was to determine if feeding chickens natural organic minerals combined with beneficial probiotics would promote a healthy intenstinal environment that would make for healthier chickens and increased feed efficiency.

Methods/Materials

Sixteen Rhode Island Red hens were divided into two coops. Chickens in one coop were given MLG-50 Plus feed supplement over an eight week period mixed with feed and water. The measurements of the added supplement were done as recommended. Chickens in the other coop were fed normal feed and water with no added supplement. This process was performed over 8 consecutive weeks and data was recorded. Daily, chickens in both coops were checked for food and water consumption and eggs were collected and weighed. All sixteen chickens were weighed on the onset of the experiment and then once weekly and data was recorded.

Results

The group of chickens that received the feed supplement started laying eggs on the forth day of the second week of the experiment which was about two weeks earlier than the chickens that were fed the regular feed and plain water so overall, the onset of egg lay was improved.

The average weight, in grams, of the eggs from the chickens that received the feed supplement was more than the other group of chickens so overall, the eggs produced by the chickens who received the feed supplement weighed more.

The average chicken weight, in pounds, of the group of chickens that received the feed supplement was slightly more than the other group of chickens. This indicates that the feed supplement did effect weight gain of the chickens.

Conclusions/Discussion

I think the results are good news for farmers since it is better to feed animals natural or organic food insted of using antibiotics and other additives.
There are also potential cost saving benefits that poultry growers and perhaps other livestock farmers may see by using this feed supplement product. Using organic feed can produce healthier chickens and eggs, and provide efficient growth with less feed to perhaps allow chickens to consume a lower quality feed that costs less so farmer can save money.

Summary Statement

To determine if feeding chickens a mineral supplement combined with beneficial probiotics promotes a healthy intestinal environment, resulting in healthier chickens and increased feed efficiency.

Help Received

Mother helped wth typing and MLG-50 Plus product obtained from Professer at California State University, Fresno

Preliminary