Syrian Poultry Farm Increases Profits by 34% with MICROBE-LIFT® Technology

Location: **Poultry Farm, Syria**

Background: The idea of using MICROBE-LIFT® in poultry production was encouraged by fact that many international manufacturers of veterinarian products have recently introduced feed additives containing various forms of live bacteria. These probiotic products, which usually contain a short list of non-beneficial remaining after the food moves down the digestive track. As the bacteria contained in MICROBE-LIFT® play the same role when used on the solid surfaces (walls, pipes, floors, etc.) of stables, barns and food processing plants, it was logical to think that the non-pathological bacteria consortium in our products would be worth studying in this capacity.

This effort was supported by the fact that MICROBE-LIFT® was used successfully in shrimp farm trials in the USA and Taiwan a few years ago, and the results of these trials on increasing growth, individual weight, and reduction of feed were quite astonishing.

Objective

This trial was designed to determine the effect of MICROBE-LIFT® usage on poultry production through:

- Adding MICROBE-LIFT® to the birds drinking water in order to minimize the effects of non-beneficial bacteria in birds intestine and stomach, with the goal of reducing the mortality rate and improving the birds overall health.
- Spraying MICROBE-LIFT® on the floors of the barns, thus eliminating the various gases produced by the chickens' manure, to improve environmental conditions, which in turn would result in healthier birds and increase over all production profits.

Benefit analysis was measured by tracking the following data:

- Mortality rate versus standard control.
- Weight of average chicken versus standard control.
- Feed conversion coefficient versus standard control.

Methodologies and Procedures

Barns and Poultry Population Groups

Two barns, each measuring 700 square meters, were selected and fully disinfected by an iodine-based disinfectant.

Each barn was stocked with 10,200 birds. The populations of experimental birds were all from the same source, hatched within one day of each other, stocked in the barns at the age of one to two days, and all were inspected and considered to be in good health.

During the entire trial, the two herds were subject to the same preventive medical plan, and when there was a need for therapeutic action, the same antibiotics were administered to both Groups. In this manner, care was taken to limit the variables, other than the usage of MICROBE-LIFT®

MICROBE-LIFT® Application

Product was diluted at 1:40 parts of water and sprayed on the barns floors, and walls. This application was implemented three times: at day 7, day 21, and day 35. (Total product used in this fashion was 26.25 Litres)

Product was mixed with the drinking water of the herd as follows:

1. One part of MICROBE-LIFT® to 3000 parts of water starting from the 1st day through the 7th day, then
2. One part of MICROBE-LIFT® to 2000 parts of water starting from the 8th day through the 15th day, then
3. One part of MICROBE-LIFT® to 1000 part of water starting from the 16th day through the 46th day of the trial.

(Total product used in above a, b, c phases was139.08 Litres)

Results Achieved: The following data provides assessment of the effect of treatment:

Economic Analysis: MICROBE-LIFT® experimental herd produced the following savings:

Description	Control Herd	Experiment Herd
Herd's No.	1039	1040
Area of Barn	700 M2	700 M2
Populations	10,200 birds	10,200 birds
Starting Date	Oct.30.2005	Oct.30.2005
Duration of Experiment	46 days	46 days
Mortality Rate	22.17%	9.91%
Mortality Count	2261 birds	1011 birds
Average Weight	1365 gm/bird	1812 gm/bird
Conversion Coefficient	3.14	2.8

$4,500.00	Cost of 1250 birds was less due to lower mortality
$7,097.46	Cost of the weight increase was less due to improved feed conversion
$1,862.46	Cost of feed savings which amounted to 4,828.6 kg
$13,489.92	Total savings vs. control
$1,965.60	Less cost of ML
$11,524.32	NET PROFIT BENEFIT

Conclusion

This poultry trial project demonstrates the efficacy of using MICROBE-LIFT® as a cost-effective food additive in poultry production. The economic benefits to the poultry industry can be summarized as follows:

- **Increased Average Weight**

  As referenced in the trial, the average bird weighted 0.447 kg. more than the control birds, which amounted to a value of some U.S. $0.894 per bird.

- **Reduced Mortality Rate**

  The experimental group exhibited a mortality of only 9.91% versus 22.17% for the control group, amounting to increase of U.S. $0.493 per bird.

- **Reduced Feed Cost**

  The conversion rate improved from 3.14 kg. of feed to one kg. of meat, to 2.85 kg. of feed to one kg. of meat, resulting in a savings of U.S. $0.203.

While net savings will vary by market, this trial in Syria resulted in a 34.61% increase in profit based on the total selling price of experimental herd versus the control herd. The additional benefit, albeit subjective, was the significant reduction in odor. This was noticed by staff and neighbors, a true benefit to our position in the community. This farm manager was very pleased with the results and will continue to use MICROBE-LIFT® as a fundamental part of the production regimen.

For more information on MICROBE-LIFT® Technology contact
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