
PROGREEN-FA

Progreen-FA Improved Growth Performances and Nutrient Utilization in Broilers, as well as Reduced Harmful Gases in Barns



Objective

To investigate the effect of Progreen-FA on growth performances and stench in broiler houses.

Period

August 1, 2012 — September 5, 2012

Materials and Methods

Materials

- 600 one-day old Arbor Acres broilers
- Progreen-FA, supplied by New Well Power Co., Ltd.
- Basal diets

Treatments

600 Arbor Acres broilers were randomly allotted to five treatments, four replicates per treatment. Broilers in different treatments were fed with diets supplemented by varying amounts of Progreen-FA as well as other brands of probiotic feed additives. There was no significant differences in the initial body weights of broilers under the GLM ANOVA model ($P > 0.05$).

Treatment	Control	Brand 1	Brand 2	Brand 3	Progreen-FA
Amount added (kg / 1 ton of feeds)	0.0	1.0	0.5	1.0	0.5

Measurements

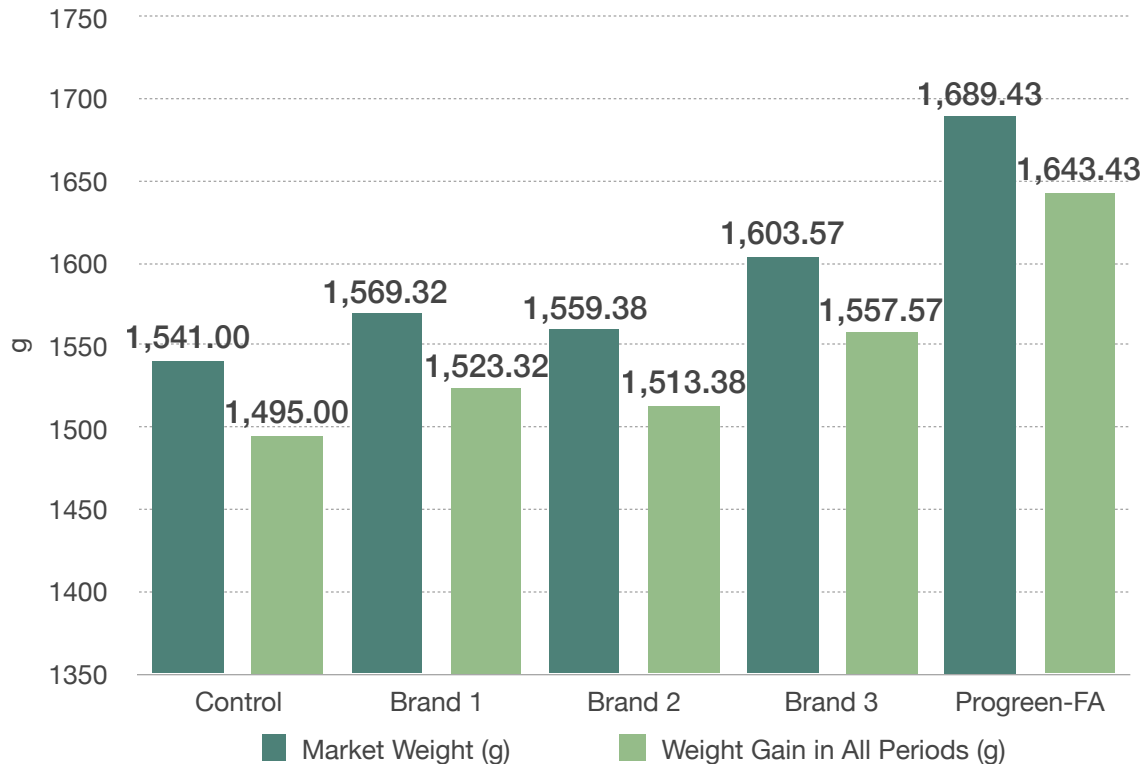
1. Growth performances and nutrient utilization:
Feeds consumed and broiler weights were recorded. The data were used to calculate the average feeds consumed, average weight gains and feed-gain ratio (i.e. feed efficiency) throughout the entire feeding period (starting, growing and finishing periods).
2. Stench in broiler houses:
Concentrations of NH_3 and H_2S in broiler houses were recorded at the end of growing and finishing periods.

Statistical Analysis

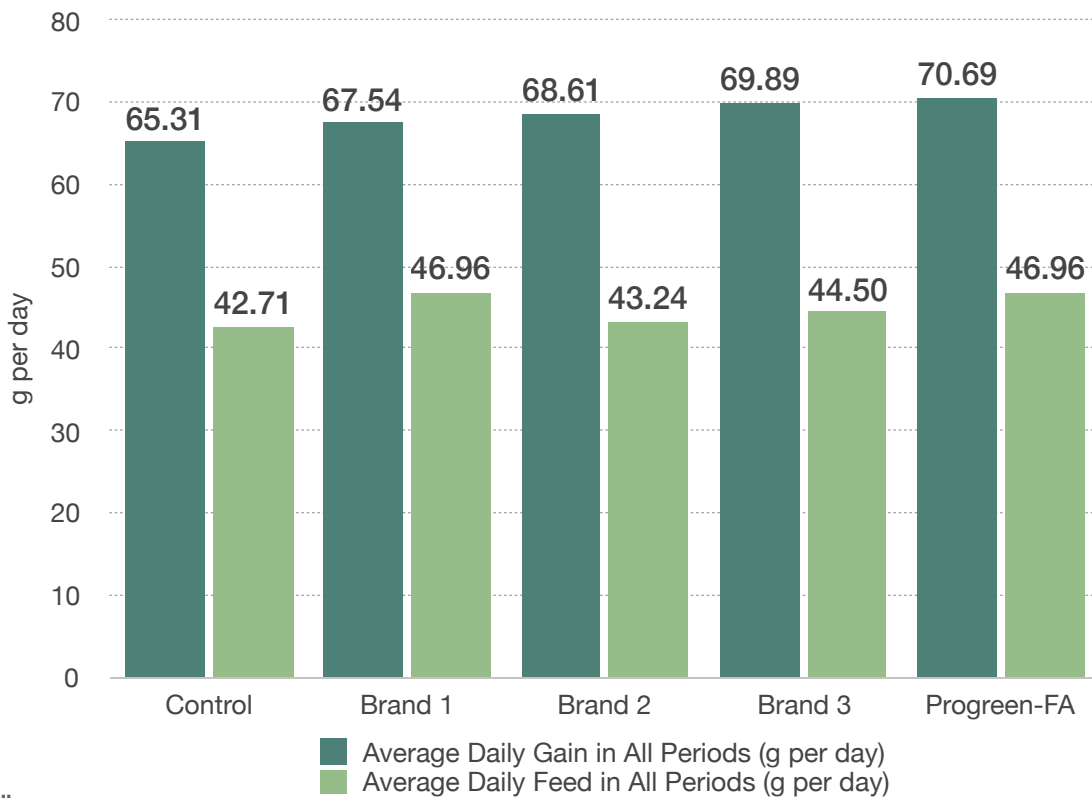
All data were analyzed using the one-tail paired T-test of the GLM ANOVA model in SAS software.

Results

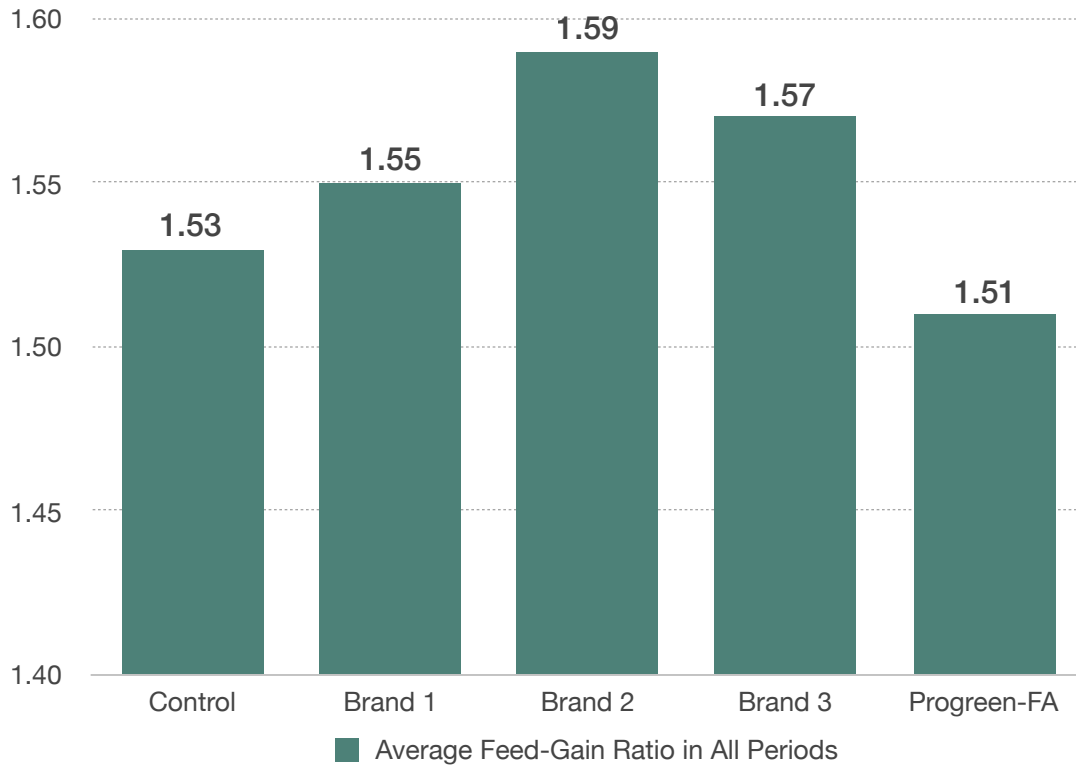
Progreen-FA Enhances Growth Performances in Broilers (1)



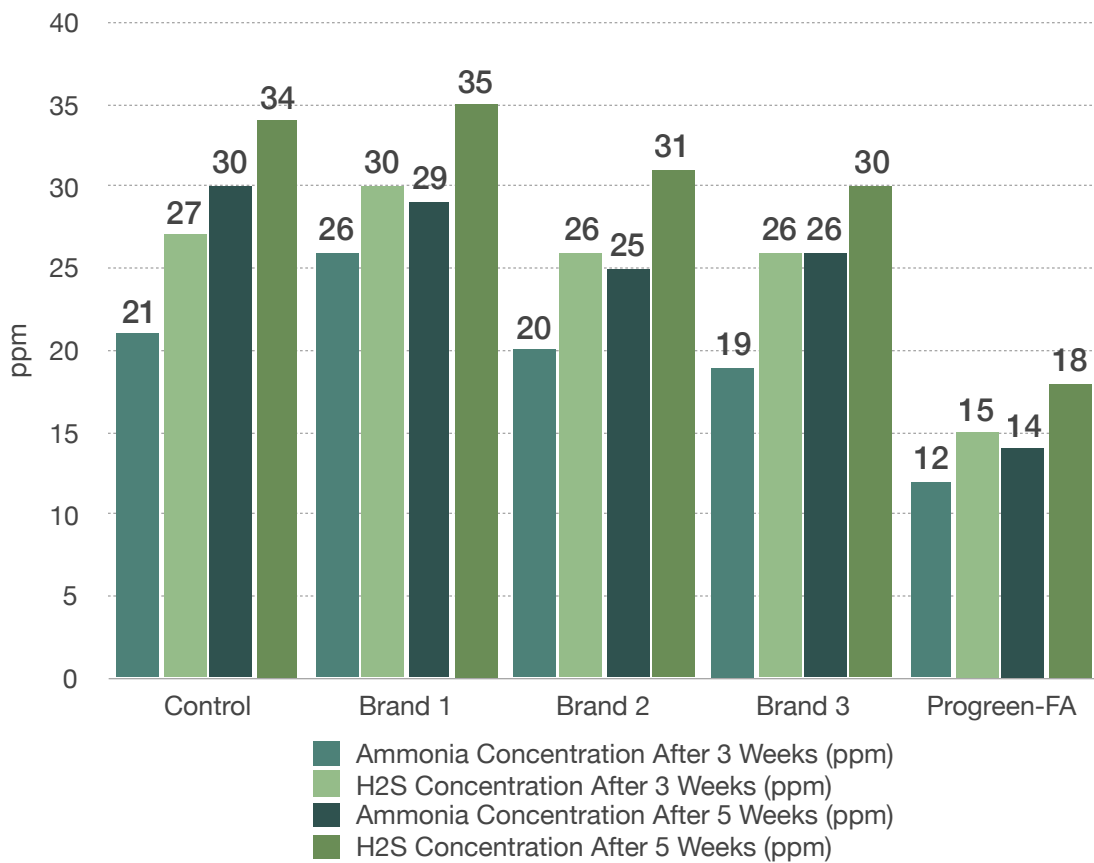
Progreen-FA Enhances Growth Performances in Broilers (2)



Progreen-FA Enhances Feed Utilization



Progreen-FA Reduces Air Ammonia & H2S Concentrations in Barns



Conclusion

1. In broilers, Progreen-FA enhances market weights, average daily gains and feed efficiencies by 9.60%, 9.95% and 1.30%, respectively
2. In finishing-period broilers, Progreen-FA reduces NH₃ and H₂S in barns by 44.4% and 47.1%, respectively

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