

Feeding trial

Improve performance of turkey poults with HP AviSure



Summary

Replacing part of SBM in starter and grower diets by 5% or 10% **HP AviSure** improves BW and FCR at day 21 and 42 of turkey poults compared with a starter diet (day 0-21) and a grower diet (day 0-42) with SBM only. Results indicate an optimal dosage of **HP AviSure** of 10% in the starter diet and between 5% and 10% in the grower diet.

Objective(s)

To find the optimal inclusion level of HP AviSure for turkey poults in the first two feeding phases (day 0-21 and day 21-42).

Results

- In the starter phase (day 0-21), 5% and 10% inclusion of HP AviSure improves poult BW by 1.4% and 2%, respectively, compared to an SBM-only diet (figure 1a).
- 10% inclusion of HP AviSure in the starter diet also reduces mortality adjusted FCR by 4 points compared to an SBM-only diet (figure 1b).
- In the grower phase (day 21-42), BW improves by 1.8% and 2.4% when feeding 5% or 10% HP AviSure in diets day 0-42, respectively, compared to the SBM-only diets (figure 2a).
- Mortality adjusted FCR is reduced by 5 and 4 points during the grower phase by feeding 5% or 10% HP AviSure day 0-42, respectively, compared to the SBM-only diet, (figure 2b).
- Results indicate that the optimal inclusion rate of HP AviSure is 10% in the starter phase (day 0-21), while it is between 5% and 10% in the grower phase (day 21-42).



Image not specific for this trial



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Improve performance of turkey poults by including 10% of HP AviSure in starter diets (day 0-21)

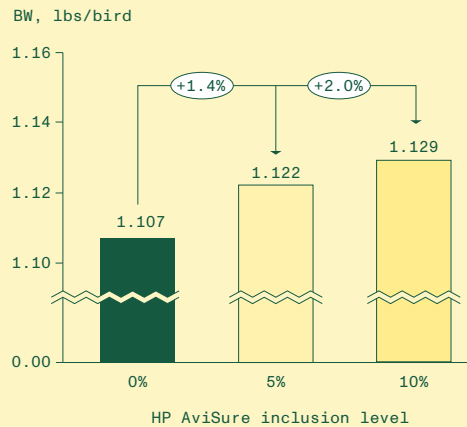


Figure 1a. Body weight (lbs/bird) at day 21 of turkey poults receiving increasing levels of HP AviSure (0%, 5% or 10%) in starter diets (day 0-21).

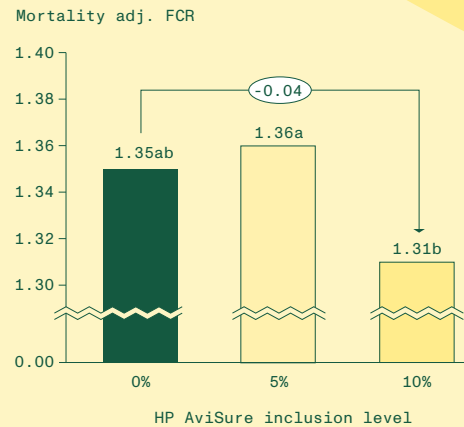


Figure 1b. Feed conversion ratio (FCR) in the starter phase (day 0-21) of turkey poults receiving increasing levels of HP AviSure (0%, 5% or 10%) in starter diets. Different letters indicate significant difference ($p < 0.05$)

An inclusion rate between 5% and 10% of HP AviSure in grower diets (day 21-42) improves performance of turkey poults

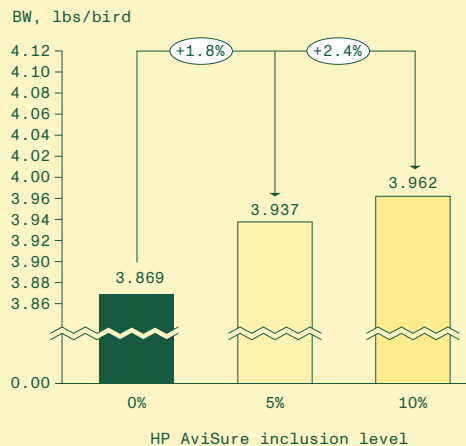


Figure 2a. Body weight (lbs/bird) at day 42 of turkey poults receiving increasing levels of HP AviSure (0%, 5% or 10%) in grower diets (day 21-42).

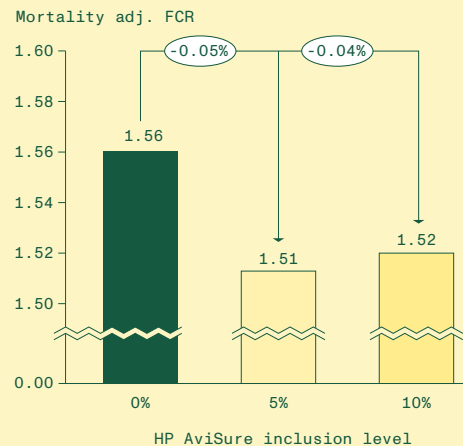


Figure 2b. Feed conversion ratio (FCR) in the grower phase (day 21-42) of turkey poults receiving increasing levels of HP AviSure (0%, 5% or 10%) in grower diets.

Materials and methods

360 day-of-hatch Nicholas female turkey poults, 120 poults per dietary treatment.
16 cages (=replicates)/dietary treatment, 7-8 poults/replicate depending on cage size (0.5 sqft/bird).
Birds orally challenged with 10x dose of coccidiosis vaccine (1mL solution/bird).

3 dietary treatments:

- Starter (day 0-21): SBM (50.9%), 5% HP AviSure (44.9% SBM), 10% HP AviSure (38.9% SBM).
- Grower: (day 21-42): SBM (43.5%), 5% HP AviSure (37.5% SBM), 10% HP AviSure (31.9% SBM).

Starter and grower diets were formulated to meet nutrient requirements and to contain 1.64% and 1.45% dig. Lys, respectively

Location

Applied Poultry Research, North Carolina, US, 2020.