

Aquapulse - Summary of early proof of concept work - chickens

Exploratory proof of concept work has been carried out across four UK chicken farms, on both broilers and egg production.

Headline initial feedback

- Enhanced weight gain in previously under performing shed (broilers)
- Dry litter providing disposal or biofuel more cost efficient. (More efficient water consumption by birds attributed to Aquapulse).
- Reduction in breast and foot infections, attributed to dry litter (broilers)
- Reduced animal mortality.
- Naturally clean, scale free water systems.

Additional feedback covering both broilers & egg production

- The water feed pipes cleared of algae and appeared generally cleaner.
- Pipettes were descaled during normal usage enabling easier drinking.
- Reduced maintenance and down-time costs as the fortnightly 'flush' of the pipes which requires a shut-down of the water feeds whilst chemicals were flushed through to clear the drinking water system was not necessary.
- Improved the overall health of hens. Considered, reducing/eliminating vaccines.
- Increase the yield of eggs, potential to increase hen egg laying capability beyond existing thresholds (72/76 weeks).
- Reduction in the number of cracked or imperfect eggs.
- Reduced hen mortality rates.
- Reduced levels of feed (wheat and soya based) conversion.
- Improvement to the colour and taste of eggs.
- Improved water clarity, and removal of biofilm in pipe runs, and storage tanks.
- Reduction of algae in storage tanks.

Recommendations for further work

- Hot water scalding (scale reduction, energy efficiency improvements)
- Feed conversion ratio
- Anti-biotic reduction
- Footpad dermatitis caused by wet litter



Aquapulse®

Water as nature intended it...

www.clearworldwater.co.uk

- Breast blisters/hock burns
- Scale and bio film reduction elimination in water systems
- General bird health