

What is the best level of inclusion in broiler chickens?

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The aim of this trial was to test the effect of different levels of BUTIREX C4 on productive performance and nutrients excretion from 0 to 40 d of age.

MATERIAL AND METHOD

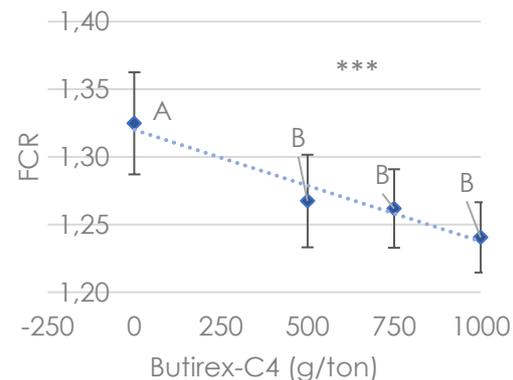
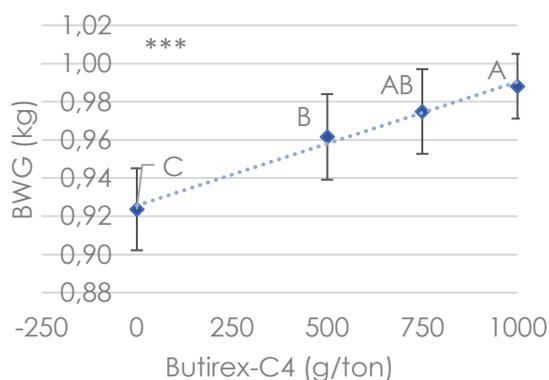
- The trial was carried out by Larvas Federal University, Minas Gerais, Brazil, in 2019
- 800 one-day old Cobb 500 chicks, distributed in 32 pens (25 birds/pen) → 8 pens/treatment.
- 4 Treatments (same basal diets) with different levels of BUTIREX C4 (g/ton)

	Control	Low level	Medium level	High level
From 0 to 20 d	0	500	750	1000
From 21 to 40 d	0	300	500	750

- Statistical analysis: NS >0.1; + 0.1 – 0.05; *0.05 – 0.01; ** 0.01- 0.005; *** < 0.005

RESULTS

From 0 to 20 d of age Butirex C4 improved productive performance linearly



Body weight gain and feed conversion ratio improve as the level of Butirex- C4 in the diet increase. The regression equations are:

• **ADG** ₁₋₂₁ = 926 + 0.0649*Butirex (g/ton)

• **FCR** ₁₋₂₁ = 1.32 - 0.000082*Butirex (g/ton)

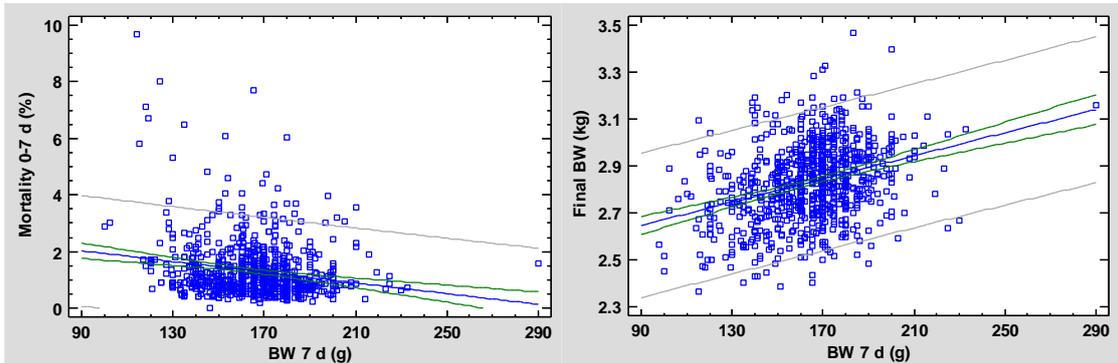
From these equations we can extract that for every kg per ton of Butirex-C4:

- The **body weight** increases 64.9 g

• **FCR** improve 0.082

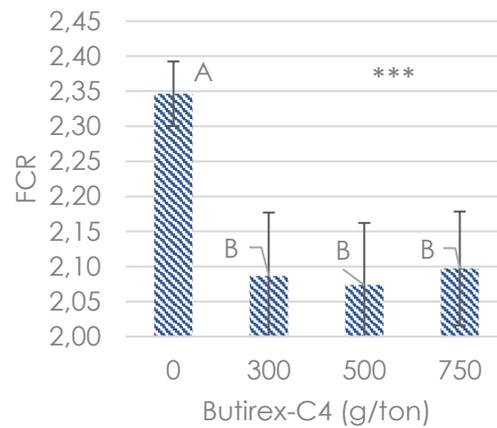
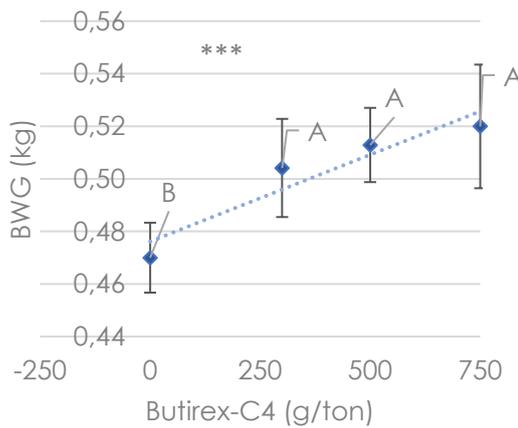
Did you know...?

Initial BW has a great influence on mortality during first week, final BW, and therefore economic performance.



(Data from 810 flocks)

In adult chickens, Butirex-C4 increased Body weight gain **linearly**, but Feed efficiency improved **in the same way at any dose**.



(DATA FROM 35 TO 40 D OF AGE)

CONCLUSIONS AND RECOMMENDATIONS OF USE



Use high level (1000 g/ton) of Butirex-C4 to increase body weight and improve feed efficiency, reducing initial mortality and productivity cost



Dose will depend of the objective:

- High level (750 g/ton) to improve body weight
- Low level (300 or 500 g/ton) to improve feed efficiency