

ROI Case Study: Livestock Feed Additive for Turkeys

Our partner in Europe has performed several field trials with their “Food Grade” biochar used as a livestock feed additive, for pigs, for turkeys, for dairy cows, and for beef cattle. One of the more successful trials was for turkeys.

The turkeys were fed biochar, blended in with their normal feed, from the day they hatched out of the egg, until the day they were butchered for meat 22 weeks later. (They have provided us the feed tables. The dose rate is proportional to the weight of the bird.) The food grade biochar was sold to the feed producer at a price of €6,000 per metric ton.



Over 22 weeks, the turkeys ate on average, €1.49 worth of biochar. These turkeys grew larger and faster than the turkeys not fed the biochar. At harvest, the biochar fed turkeys sold for €3.80 more additional meat than the turkeys not fed biochar.

Thus, the ROI calculation for this farmer is:

$$\text{ROI} = (\text{€}3.80 - \text{€}1.49) / 1.49 * 100 = \mathbf{155\%} \text{ per bird, in 22 weeks.}$$