

FEED NUTRIENT (NITROGEN, PHOSPHORUS AND POTASSIUM) UTILIZATION AND NITROGEN EMISSION IN TURKEY AND DUCK FARMS

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Summary. The aim of our work was to analyze the balance of nutrients and the loss in the duck and turkey houses taking into account the technology of keeping, feeding, elimination and accumulation of manure, also by evaluating the level of nitrogen emission into the environment. The average ammonia emission in the duck barn was $7.7 \text{ g h}^{-1} \text{ AU}^{-1}$. The results on the conversion of alimentary substances of feed into the production showed that ducklings and turkeys have assimilated respectively 19.08 % and 11.28 % of nitrogen, 23.26 % and 17.59% of phosphorus, 17.51 % and 6.11 % potassium. 14.90 % of nitrogen extracted from the ducks excrements and 24.6 % from turkeys is lost in the calendar year because of ammonia emission when technologies of birds keeping on the littered floor are applied.

Keywords: turkeys, ducks, birdseed, nutrient utilization, nitrogen emission.