



Cattle Fattening Husbandry effects on the Environment in Turkey

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ABSTRACT

Objective: Livestock sector in Turkey has an important place in the agricultural sector. Agricultural production consists of approximately 24% for animal production. Cattle fattening husbandry in Turkey cause to environmental problems. While population is growing, the need for cattle fattening products has been also increased. Result of this, development of intensive farming causes effects such as numerical increase and industrialization, water and air pollution. The purpose of this study, in Turkey, the cattle fattening husbandry and the cattle fattening products processing industry are to determine the relationship between the environment and environmental problems and their status of the legal regulations are to expose

Results: In Turkey, in general (all farming enterprises) are around 30,000 and about 90 %; are small farm properties. In most of these, closed systems are fattening. In animal shelters, when liquid manure comes in contact with air, NH_3 (ammonia) is released. Aqueous ammonia has a negative effect on the endocrine glands. High concentrations of ammonia in plants and soil organisms have a toxic effect. In vegetable research on plants; wheat, cabbage, sunflower and tomato leaves with a time of 1 hour exposure to 40 ppm ammonia gas, adverse effects have been found to occur.



Surface waters with high concentrations of ammonium reveal several problems. If manure stays at the shelter it will spread on animal and in the open air, it will smell and spread harmful gases. Given that fresh manure put in the soil is not useful to plants.

Conclusion and application of findings: In Turkey, in Intensive cattle fattening husbandry, the major environmental problems are:

- Cattle manure is not stored in an appropriate manner
- Cattle manure put in soil, not based on soil analysis.
- Animal-feed production obeying environmental rule.
- A large amount of cattle manure is used as fuel.
- Processing industry of cattle products; make water, soil, air and noise pollution.
- Establishment of Industry in the wrong settlement place.
- Legally complexity, lack of coordination and control.

Major Solutions

- Manure should not be burnt.
- According to results of soil analysis, manure could be used.
- Biogas should be produced from manure.
- Manure and animal feed must be stored well.

Key word: Cattle fattening in the open, legal regulations, environment, waste

