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ANALYSIS OF SELECTED FACTORS AFFECTING AMMONIA EMISSION DURING STORAGE OF FARMYARD MANURE UNDER EXPLOITATION CONDITIONS

Key words: ammonia emission, farm, farmyard manure, storage

Summary

The aim of this study was to measure ammonia emission during manure storage under operation conditions and to estimate the effect of storage parameters on its intensification. One hundred and thirty measurements of ammonia emissions were made in the years 2003–2007 at farmyard manure heaps in several dairy farms using micrometeorological passive dosimetry method. Annual losses of ammonia-nitrogen ranged between 31.7 and 33.4% of its initial amount deposited on a manure heap. The most important factors affecting ammonia volatilization from manure heaps were: technical and technological conditions and meteorological factors.