



Agricultural Journals

Research in

**AGRICULTURAL
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Res. Agr. Eng.

**J. Pecen, P.
Zabloudilová**

The comparison of two

ammonia emission continual measurement

Res. Agr. Eng., 51 (2005): 112-118

Measurement of the ammonia emissions by two different types of sensors (PHOTOCOUSTICS analyzer INNOVA and SOLID STATE sensor SP-53) was carried out in laboratory with one material of litter wood-shavings (with dry or wet material). The initial ammonia concentration and humidity of material were changed. The output data of these sensors were continually saved and processed. A small difference was found out between the output data of these sensors. The difference depends not only on ammonia concentration and humidity of material but also on the duration time from the beginning of measurement. All experiments of ammonia concentration were carried out with three initial values of humidity and ammonia concentrations within used material. The decrease of ammonia concentration (its velocity) in