

**PLT38. ASSESSMENT OF ODOUR EMISSIONS FROM MEAT CHICKEN
SHEDS USING DYNAMIC OLFACTOMETRY**

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Abstract

Odour emissions from meat chicken sheds can at times cause odour impacts on surrounding communities. Litter is considered to be the primary source of odour from meat chicken sheds because the majority of odorous compounds are released during the decomposition of organic matter. Formation and emission of odour from meat chicken litter during the grow-out period are influenced by various factors such as litter conditions, the environment, microbial activity, properties of the odorous gases and management practices. Odour is a normal part of meat chicken production due to anaerobic and aerobic microbial activity in the litter and also due to its release from the animals. In order to reduce the impact we need to have a clear image regarding the level of emissions during the grow-out period and establish the level of impact. The current study validated and tested a methodology of assessing the odour level using dynamic olfactometry. The study confirmed a significant level of odour in the vicinity of chicken sheds and also in the inhabited areas around them.

Keywords: *litter, odour, olfactometry, sheds*