

# Pest Management in Stored Grain and Food Safety—A Field Study

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**Abstract:** *The occurrence of pesticide residues in various food grains, fruits, vegetables etc has become a serious concern, world over. Infact bioaccumulation of pesticide residues in human body weakens the immune system resulting in different types of disorders in body. Grains are the most consumed food material especially among the poor families. Now a day's grains like wheat are being stored in metallic bins for household consumption. From the view point of food safety and health, a survey on grain storage system was conducted in rural areas of Hissar district (Haryana). It was noted that at domestic level wheat is stored in metallic bins of different capacity and ALP is inevitably used in non-scientific manner. Recommended practices especially taking out phosphine gas from the storage structure after certain duration is not at all followed. Thus stored grains may be highly contaminated with poisonous gas PH<sub>3</sub> continuously being released within the storage structure. In the present paper results of field study as well as harmful effects of PH<sub>3</sub> gas reported in literature are presented. Need of new design of storage structure is discussed.*