

Title A survey of psocid species infesting stored grain in China and resistance to phosphine in field populations of *Liposcelis entomophila* (Enderlein) (Psocoptera: Liposcelididae).

Authors Cao, Y., Song, Y. and Sun, G. Y.

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Abstract

A survey of the distribution of psocids in major grain storage systems in various provinces of China (Jilin, Liaoning, Gansu, Shanxi, Beijing, Hebei, Henan, Shandong, Anhui, Jiangsu, Zhejiang, Jiangxi, Fujian, Sichuan, Yunnan, Guizhou, Hunan, Guangdong and Guangxi) was conducted. *L. entomophila* was the most common and widely distributed, followed by *L. decolor*. *L. paeta* and *Liposcelis mendax* were also detected. Ten strains of *L. entomophila* were evaluated for resistance to phosphine. All strains showed resistance compared with a susceptible reference strain, with resistant factors ranging from 40- to 80-fold. Resistance to phosphine appears to be the major factor determining psocid infestation in grain storage facilities in China.