

12. Various other arthropods

12.1 The effect of low oxygen pressure on museum pests

In order to find time threshold values for nitrogen treatment of museum pest insects, screening tests have been performed on *Anthrenus museorum* (eggs), *A. verbasci* (eggs), *Attagenus woodroffei* (larvae), *Att. smirnovi* (eggs and larvae), *Trogoderma angustum* (eggs), *Ptinus tectus* (imagines) and *Tineola bisselliella* (eggs). The specimens were exposed to 0.3% oxygen (balance nitrogen) at 25°C and 55% RH for exposure times in the range 6-72 hours. The most susceptible species/stage was *Att. smirnovi*, egg stage, where no survival was found. The most tolerant species/stage was *Att. woodroffei*, larval stage, where survival occurred after 72 hours.

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