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The effect of temperature on the development of the 1st instar of *Periplaneta australasiae* (Fabr.) was studied at the four constant temperatures of 21°C, 24°C, 27°C and 30°C in temperature-controlled chambers. Mortality was 50% at 30°C, and 10% at 21°C, 24° and 27°C. Thermal constants were established by plotting linear regression to development rate. The thermal threshold for the development was 17.1°C and the thermal constant for 1st instar larvae was 147.1 day-degrees. As “safe temperature” ( $t_s$ ) – the temperature to be maintained in stores or food premises to prevent the development of a pest species – we recommend 16°C.

**Keywords:**

*Periplaneta australasiae*; development; thermal constants; thermal threshold; glasshouses; urban pest

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