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Comparison of field population growths of three cereal aphid species on winter wheat

Vojtěch Jarošík, Alois Honěk, A. Tichopád

<https://doi.org/10.17221/3827-PPS>

Citation: Jarošík V., Honěk A., Tichopád A. (2003): Comparison of field population growths of three cereal aphid species on winter wheat. *Plant Protect. Sci.*, 39: 61-64.

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Population growths of three aphid species colonising winter wheat stands, *Metopolophium dirhodum*, *Rhopalosiphum padi* and *Sitobion avenae*, were analysed by regression method. The calculations were based on counts in 268 winter wheat plots at 3 or 7 day intervals over 10 (leaves) or 6 (ears) years. The population dynamics of a particular species differed widely between years. Density independent exponential growth of the population was most common, but its rate differed significantly between species, and for *S. avenae* also between populations on leaves and ears, on which the populations grew fastest. Field estimates of the intrinsic rate of increase derived from the exponential growths ranged between 0.010–0.026 in *M. dirhodum*, 0.0071–0.011 in *R. padi*, and between 0.00078–0.0061 and 0.0015–0.13 in *S. avenae* on leaves and ears, respectively. In the populations with the most vigorous population growth, *S. avenae* on ears and *M. dirhodum* on leaves, the rate of population increase significantly decreased with increasing aphid density.

Keywords:

Metopolophium dirhodum; *Rhopalosiphum padi*; *Sitobion avenae*; population dynamic; pest monitoring; winter wheat

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