

# Effect of content and distribution of hydroxamic acids in wheat on infestation by the aphid *Schizaphis graminum*

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The content of hydroxamic acids in wheat plants shows substantial variations between different species and cultivars (1.0-6.3 mmol/kg fr. wt). It also varies with the age of the plant and the organ assayed. The maximum concentration is reached by the fourth day in epicotyls and roots. The amount in leaves at different plant ages is always higher in the younger leaves. Based on feeding and infestation experiments, it is proposed that the distribution of aphids on leaves of different ages is regulated by the hydroxamic acid content. © 1981.