

# Preliminary survey on composition and quality of conventional and organic wheat

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## Abstract

Nutrient content, insects, mycotoxins and heavy metal contamination were determined on 35 samples of organic and conventional wheat (*Triticum aestivum*). A higher crude protein level was observed in conventional wheat (129.6 vs 107.5 g kg<sup>-1</sup>; P<0.01). Organic wheat was more infested by pests than the conventional one. Ochratoxin A levels were low and not different between organic and conventional wheat. The deoxynivalenol level was significantly lower in organically grown than in conventionally grown wheat (2.85 vs 99.67 µg kg<sup>-1</sup>). Cadmium concentration was higher in conventional wheat (27.87 vs 19.41 µg kg<sup>-1</sup>; P<0.01), while lead was higher in the organic samples (29.63 vs 8.47 µg kg<sup>-1</sup>; P<0.05).

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