



The wheat yield quality with different fertilizers and pesticides applying when used to the wheat crop on cambic chernozem from ARDS Caracal

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Within the long term experiments with different fertilizers with N, P, K that were set up at ARDS Caracal in 2008 there was researched the wheat yield quality. The nitrogen content from wheat kernels and, respectively, the raw protein content has shown differences in function of the phosphorus fertilization. In this manner, there can be noticed an increase of the nitrogen content along with the increase of the phosphorus doses from 2.22% with P0 to 2.47% with P120, the protein content being between 13.87% with P0 and 15.44 with P120. The nitrogen fertilization has determined an increase of the nitrogen content of the wheat kernels from 1.85% with N0 and 2.86% with N200. The protein content has been between 11.56% with N0 and 17.87% with N200. The gluten content has been influenced by the different fertilizer doses. The higher the nitrogen doses, the lower the gluten content. According with LMA of the literature, the results are under these values and that proves that the wheat yield has not accumulated pesticides over the limits and those present in the wheat grains are not harmful for humans.