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Effects of Soil Types and Fertilizer Application on Mineral Contents of Wheat Grains and Flour : I. The relationship between ash content and mineral contents of grains and flour

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Abstract:

Grain and flour of Asakazekomugi and Norin 61 cultivated in Gray lowland soil, Red soil and Thick High-humic Andosol were analyzed for N, P, K, Mg, Ca and Mn contents. Ash content was compared with the content of these minerals. N, Mg and Ca contents were lower but Mn content was higher in grain of wheat cultivated in Red soil than in those in Gray lowland soil. N, P and Ca contents were lower but K and Mn contents were higher in flour of wheat cultivated in Red soil than in those in Gray lowland soil. P, K, Mg and Ca contents were lower in grain of wheat cultivated in High-humic Andosol than in those in Gray lowland soil. N content was higher but P, Ca and Mn contents were lower in flour of wheat cultivated in High-humic Andosol than in those in Gray lowland soil. Differences in ash content of wheat cultivated in three soil types was due to the differences of P, K, Mg, Ca and Mn contents. Increase of P, K and Mn contents by the application of phosphoric-acid in High-humic Andosol resulted in the increase of ash contents in grain and flour.

Keywords:

Ash, Calcium, Magnesium, Manganese, Phosphorus, Potassium, Soil type, Wheat

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