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Res. Agr. Eng.

R. Rybář

External factors and their impact on the

metabonom ana

technological quality of stored sugar beet

Res. Agr. Eng., 50 (2004): 81-87

Technological quality of sugar beet is a complex of biological, chemical, physico-chemical mechanical properties of the sugar beet root, which are conclusive to decide upon a proper warehousing and subsequent processing of the crop aimed at reaching a maximum yield of white refined sugar (raffinade). It is affected by a number of externand internal factors of the field during the growing season and during the post-harve storage. This particularly applies to sugar beet meant for sugar factory processing in the months of November and December, i.e. to about 40–60% of total sugar beet crop harvested in the Czech Republic. Having been lifted at the end of vegetation, the roc still remains to be a living organism with its specific metabolism which can be characterized by a high loss of bioenergy the size of which can be influenced not only by the harvest quality as expressed by the rate of surface damage to the roots, but also by weather factors such as alternating temperatures, solar radiation intensity, precipitations, etc. For this part of the production it is necessary to adopt measures that would minimize the loss of sugar beet roots weight and technological quality