

## **Influence of selected agrotechnical measures and climate conditions on root yield and digestion of sugar beet**

### **Vplyv vybraných agrotechnických opatrení a klimatických podmienok na úrodu buliev a cukornatosť repy cukrovej**

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#### **Abstract**

In the years 2014 and 2015 was in field conditions founded polyfactorial experiment, where was observed impact of selected varieties of sugar beet (Antek, Kant, Galvani, Kosmas), biopreparations (Alga 300 P + Alga 300 K, Alga 600) and also weather conditions of the year to main quantitative parameter (root yield) and main qualitative parameter (digestion) of sugar beet. Confirmed was high significant influence of the year condition to both evaluated parameters. Higher root yield was achieved in 2014 on the level  $88.67 \text{ t} \cdot \text{ha}^{-1}$ , which was  $29.2 \text{ t} \cdot \text{ha}^{-1}$  more (rel. + 32.93%) than yield in 2015. Digestion was higher in 2015 on the level  $17.67^\circ\text{S}$ , which was about  $1.41^\circ\text{S}$  (rel. 7.98%) more compared with 2014. Statistically high significant influence of variety was detected on digestion. On an average of both years the highest digestion achieved variety Galvani  $17.49^\circ\text{S}$ . Application of biopreparations has significant influence on root yield. Best results were achieved on treatment, where was applied Alga 600  $76.61 \text{ t} \cdot \text{ha}^{-1}$  (rel. + 5.16%) compared to the control treatment.

**Keywords:** biopreparations, digestion, root yield, sugar beet, variety, weather conditions

#### **Abstrakt**

V poľných podmienkach bol v rokoch 2014 a 2015 založený viacfaktorový pokus, v ktorom sa sledoval vplyv vybraných odrôd repy cukrovej (Antek, Kant, Galvani, Kosmas), biopreparátov (Alga 300 P + Alga 300 K, Alga 600) a tiež poveternostných podmienok ročníka na hlavný kvantitatívny parameter (úroda buliev) a hlavný kvalitatívny parameter (digešcia). Štatistickým hodnotením získaných výsledkov sa

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