

PERFORMANCE OF SOYBEAN SEED PRODUCTION AND EMERGING TRENDS UNDER CENTRAL EUROPEAN CONDITIONS

Boglárka BOZÓKI^{12*}, Gergő Péter KOVÁCS¹, Csaba GYURICZA¹

¹*Institute of Agronomy, Hungarian University of Agriculture and Life Sciences, Hungary*

²*Doctoral School of Plant Sciences, Hungarian University of Agriculture and Life Sciences,
Hungary*

[*Bozoki.Boglarka@phd.uni-mate.hu](mailto:Bozoki.Boglarka@phd.uni-mate.hu)

ABSTRACT

Due to the increase in the world population, the need for sustainable sources has become more critical than ever. With the growing planting areas of legume crops, increased attention has been paid to the ecological security concern. The feed market analysis in Europe indicates that the soybean (*Glycine max* L.) plant is the leading protein crop. However, soybean production in Europe reached 9.5 million tons in the 2021 season, and Europe is still dependent on protein imports. This imbalance between production and consumption results in economic and trade problems. This study aims to determine the soybean seed's production under the various Central European biotic and abiotic stresses. Results showed that climate change has an increased effect on soybean. This study was conducted to evaluate the effects of the continuously growing importance of soybean and the possible future emerging trends which may require a response to food security and economic crisis.

Due to the growing demand for food and feed, the competence in the processing of the soybean industry is crucial. Sustainable management principles affect many interrelated areas similarly to social, economic and environmental parameters. Therefore, sustainable intensification of the agricultural sector might balance the severe effects of climate change and society's growing concern for the environment.

Keywords: *Glycine max* L., soybean, legume crops, seed production, sustainability, food security

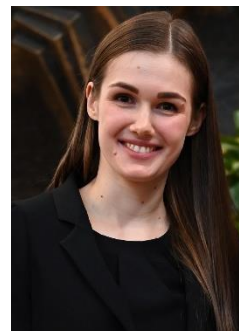
Themes: Sustainable Plant Production, Agroecology and Sustainable Agriculture

Biography

Boglárka Bozóki

PhD student, Institute of Agronomy, Hungarian University of Agriculture and Life Sciences, Gödöllő, Hungary

I am currently a PhD student at Hungarian University of Agriculture and Life Sciences, where I work forward my thesis to develop conducive researches. Before joining the PhD programme, I was working in cooperation with farmers. Since joining the University, I have been involved with studies related to agricultural sciences.



Contact information:

Institute of Agronomy

Hungarian University of Agriculture and Life Sciences

Páter Károly u. 1.

Gödöllő

Hungary

H-2100

Tel: +36305621330

Email: Bozoki.Boglarka@phd.uni-mate.hu

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