

**Faculty of Agriculture
Goce Delcev University - Stip**



**1st INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE (ASP 2018)**

BOOK OF ABSTRACTS

**10th - 11th May 2018
Stip, Republic of Macedonia**

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**1st INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2018**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF MACEDONIA
10-11 May 2018, Stip, Republic of Macedonia**

In the past ten years the educational, research and applicative activities of the Faculty of Agriculture – Stip, Goce Delcev University – Stip, contributed to the development of agriculture sector in the country and broader region.

The Faculty of Agriculture organizes the 1st International Meeting Agriscience & Practice (ASP 2018), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 1st International Meeting Agriscience & Practice (ASP 2018) is organized with intention to bring together all agricultural stakeholders for sharing their knowledge, experience and obstacles. One of the main aims is to link research and field work in agricultural sector in the country and broader, giving it an international dimension.

The main goal of the Meeting is to connect and promote scientific achievements and practical knowledge presented in different thematic areas.

We are pleased to welcome you at the Faculty of Agriculture and we wish you active participation in the Meeting.

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Plant production

BOOK OF ABSTRACTS
SECTION: PLANT PRODUCTION

AGROECOLOGICAL CONDITIONS FOR GROWING SOME HYBRIDS OF SUNFLOWER IN OVCHE POLE REGION Ivan Donev^{1*}, Ljupco Mihajlov², Emilija Arsov³, Sasa Mitrev³

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Abstract

Sunflower is a very important agricultural crop in the Republic of Macedonia and in other countries around the world. It is a high-yielding oilseed industrial culture, and it is characterized by high fatness that ranges up to 50% of the total weight of the seed in newer hybrids. This study used the latest hybrids that are grown in Macedonia without irrigational conditions in the Ovce pole region (dry and warm region). These characteristics in the production of sunflower were a challenge to set up and examine 12 varieties of hybrids in the Ovce pole region in the period from 2016 to 2017, from the sowing stage (April 2016/17) up to the phase of the sunflower harvest (Sept. 2016/17). In addition to the examined standardized characteristics (yield and sensitivity of diseases and pests), the emphasis in the research was to produce cold press oil and to check its quality. The hybrid varieties that were the subject of the research are: Experto, Armoni, Fortimi, Adagio, Neoma, Torino, Arisona, Bacardi, Feliks, Neostar, Kondi and Talento. The varieties were grown under irrigational conditions, in order to examine the agro-ecological conditions for growing sunflower. The results of the survey in the two comparative years showed that the yield of seed sunflower in the 2016 season was significantly higher than 2017 (4,320 kg/ha in 2016, compared to 2017 2,539 kg/ha) due to the higher rainfall in 2016 compared to 2017 (295 L/m² in 2016 compared to 2017 167 L/m²).

Key words: oilseed, hybrids, irrigation, sowing stage, sunflower harvest

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