

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



**2nd INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2019)**

BOOK OF ABSTRACTS

**12th April 2019
Stip, Republic of North Macedonia**

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**2nd INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2019**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF NORTH MACEDONIA
12 April 2019, Stip, Republic of North Macedonia**

In the past twelve years the educational, research and applicative activities of the Faculty of Agriculture – Stip, Goce Delcev University – Stip, contributed to the development of agricultural sector in the country and abroad.

The Faculty of Agriculture organizes the 2nd International Meeting Agriscience & Practice (ASP 2019), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 2nd International Meeting Agriscience & Practice (ASP 2019) 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 abroad, 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 PROTECTION

FIRST REPORT OF HEALTH CONDITION OF POTATO SAMPLES FROM BORDER CROSSINGS IN THE REPUBLIC OF NORTH MACEDONIA Maja Petrusheva^{1*}, Sasa Mitrev², Emilija Arsov²

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Abstract

Surveys relate to performing health examinations from import, as well as taking samples at the border crossings (entry place), in the Republic of North Macedonia for the period from 2014 to 2017, in seed and mercantile potatoes, were examined. Phytopathogenic bacteria, fungi, viruses, nematodes, and various types of insects can cause potato diseases. In order to ensure good protection measurement from all harmful organisms, a good knowledge of the conditions of occurrence of harmful organisms, their biology, the manner of their transmission, knowledge of the conditions of the occurrence of the infection and its development, as well as the symptoms and the damages caused in plants. The tests are in accordance with the monitoring programme for seeds and mercantile potatoes, and they refer to prove the presence or absence of the following harmful organisms:

- bacterial wilt and brown root of potato – *Ralstonia solanacearum*
- potato crab – *Synchytrium endobioticum* perc.
- ring root of potatoes – *Clavibacter michiganensis* subsp. *sepedonicum*
- cystolic nematodes of *Globodera pallida* (Stone) Behrens and *Globodera rostochiensis* (Wollenweber) Behrens in potatoes.

Individually, per years as well as the total for all years of the research 2014, 2015, 2016 and 2017 at the border crossing Tabanovce were the largest number of performed health visual inspections as well as laboratory-analyzed samples. The largest import of mercantile potato was made in 2014 - 3,044,758 t, and at least in 2017 - 110,267 t. The largest import of seeds material is imported in 2017 - 7,386,041t, while at least imported in 2016 - 842,005 t. In the period from 2014 to 2017, about 50% more seed potatoes were imported (10,723,672 t). For the period from 2014 to 2017, the annual import averages around 2.680.918 t of seed potatoes and 1.368.619 t of mercantile potatoes.

Key words: potato, harmful organisms, imports, border crossings

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