

STUDY OF DYNAMICS SPAD AND NDVI VALUES OF POTATO PLANTS ACCORDING TO THE DIFFERENTIATED FERTILIZATION

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Introduction. Potato fertilization (especially nitrogen fertilization) has repercussions on the dynamics of plant growth and the production and quality.

Recent results of research on the dynamics of NDVI and SPAD values of potatoes indicates ample opportunities to use these non-invasive measures to monitor the condition of vegetation in different crop growing conditions (Puiu et al. 2012; Shukla et al. 2007).

Aims. The researches were conducted to obtain information on the possibilities of non-invasive assessment of NPK fertilization effects on the state of potato plants growing in non-irrigated conditions.

Materials and Methods. Between 2013-2014, in Brasov were performed measurements of vegetation index NDVI, chlorophyll content and measurements of plant varieties Christian and Roclas harvested in dynamic, on two levels of nitrogen fertilization, N100 and N200 NPK reports 1: 1: 1 and 1: 0.9: 2.

Results. On the second decade of June 2013, the NDVI mean of Christian variety plants was 88.7, compared to 86.9 at Roclas variety. The SPAD values were 46.6 and 44.7. On 2014, a year with higher humidity, NDVI average values were higher on both varieties (91.6 and 90.8) and the SPAD values were lower (41.8 and 41.5).

NDVI values of potato plants from fertilized variants were statistically differentiated according by variety, especially in the second part of the growing season. Through SPAD values differentiation of fertilization variants has been possible throughout the entire period observed.

Conclusion. Hydrothermal conditions of vegetations limits the separation of fertilization variants with NDVI measurements, while SPAD values reflect supply plants with nitrogen.

References:

1. Puiu Isabela, G. Olteanu, G. Morar, Maria Ianoși, 2012, Monitoring the vegetation status of potato, *Agricultura – Știință și practică nr. 1- 2 (81-82)*.
2. Shukla, A. K., M.A. Khan, N.C. Upadhayay, B.P. Singh, S.S. Lal and S.K. Pandey, 2007, Chlorophyll meter: a tool for assessing dynamic nitrogen supply in potato crop under organic vis-a-vis inorganic nutrient management options, *Potato Journal 34 (1-2):95-96.*



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WELCOME MESSAGE

We are pleased to welcome you at the University of Agricultural Sciences and Veterinary Medicine from Cluj-Napoca, Romania to share our scientific performance and progress during this special scientific event.

The University of Agricultural Sciences and Veterinary Medicine from Cluj-Napoca, recently classified in the first category of “advanced research” universities of Romania, place also confirmed by the European University Association (EUA). The University becomes nowadays one of the most prestigious academic institutions from Romania.

The 14th International Symposium "Prospects for the 3rd Millennium Agriculture", is a dynamic forum of exchanges for scientific experiences, innovative ideas and concepts, future prospects in agriculture, plant and animal science, food science and technology, biotechnology, veterinary medicine, as well in other interdisciplinary and transdisciplinary areas.

The 14th International Symposium "Prospects for the 3rd Millennium Agriculture" includes invited conferences, presented by known international and national personalities, oral and poster presentations, as well round tables and exhibitions, where recent advanced scientific and technical results can be seen, especially now, in the context of the new European Research Program "Horizon 2020" and of the national Research – Technological Development and Innovation Program, related to Life Sciences.

The symposium program will consist of ten main sections:

1. Agriculture
2. Environmental Protection and Sustainable Development
3. Food Science and Technology
4. Horticulture and Forestry
5. Economics and Rural Development
6. Animal Science
7. Biotechnology
8. Veterinary Medicine - Fundamental and preclinical sciences
9. Veterinary Medicine - Clinical sciences
10. Land Measurement, Natural and Humanistic Sciences

The participants registered to our symposium have the opportunity not only to present their results, published as summary in the “Book of Abstracts” but also to publish in extenso their contributions. The oral presentations, after a previous peer review process, can be published in the journal Bulletin of UASVM-CN nr. 72(2)/2015 – Agriculture, Horticulture, Animal Science-Biotechnology, Veterinary Medicine and Food Science and Technology.

This proceedings’ “Book of Abstracts” contain 584 abstracts submitted by participants from different countries. We wish to thank all participants and organizers for making this meeting possible. We do hope that you will find during the 14th International Symposium an interesting program and a great opportunity to interact with colleagues and friends from Romania.

With best wishes,

Prof. dr. Doru PAMFIL, Rector

Prof. dr. Carmen SOCACIU, Vice-rector for Research

ANNOTATION

**The abstracts and contact information are submitted by the main authors.
Each author explicitly confirms that the abstract meets the ethical standards for authors
and coauthors.**

SYMPOSIUM PROGRAM

Wednesday, 23rd of September 2015		
14:00 - 16:30	Doctor Honoris Causa Award Ceremony • Prof. dr. Shimon Harrus, Israel • Prof. dr. Klaus Schaller, Germany	Aula Magna "Mihai Serban", USAMV Cluj-Napoca
17:00 - 19:00	Registration of participants	Hall of Aula Magna "Mihai Serban", USAMV Cluj-Napoca
19:00 - 22:00	Welcome Party	
Thursday, 24th of September 2015		
8:00 - 15:00	Registration of participants	Hall of Aula Magna "Mihai Serban", USAMV Cluj-Napoca
9:00 - 9:15	Opening ceremony Rector, Prof. Dr. D. Pamfil Representatives of Ministries, Academy and local authorities	Aula Magna "Mihai Serban"
9:15 - 10:30	1st Plenary Session (Aula Magna "Mihai Serban") Chairmen: Prof. dr. Carmen Socaciu, Prof. Dr. Shimon Harrus, Prof. Dr. Klaus Schaller	
9:15 - 9:40	<i>Bartonellosis</i> in pets, rodents and humans Prof. Dr. Shimon Harrus	Israel
9:40 - 10:05	Types of Linkages of different cations in grapevine berries of some important varieties of <i>Vitis vinifera</i> used for winemaking Prof. Dr. Klaus Schaller	Germany
10:05 - 10:30	Role of forage legumes in intensive dairy farming systems Dr. Alex De Vliegher	Belgium
10:30 - 11:00	Coffee break	
11:00 - 11:50	2nd Plenary Session (Aula Magna "Mihai Serban") Chairmen: Dr. Alex De Vliegher, Prof. dr. Jaime Prohens	
11:00 - 11:25	Use of wild relatives for increasing the genetic base and adaptation to climate change of eggplant Prof. dr. Jaime Prohens	Spain
11:25 - 11:50	<i>Landscape genetic approaches to climate change adaptation in Agriculture</i> Prof. dr. Brufford Michael	United Kingdom
12:00 - 14:30	Lunch (Biodiversity Institute or Agronomia Restaurant)	
14:30 - 19:00	Oral Sessions (sections I-X)	
14:30 - 19:00	Poster Display	Hall of Institute of Life Sciences
20:00 - 21:30	Dinner (Agronomia restaurant)	

Friday, 25th of September 2015		
09:00 - 11:00	Oral Sessions (sections I-X)	
09:00 - 11:00	Poster Display	Hall of Institute of Life Sciences
11:00 - 11:30	Coffee break	
11:30 – 13:00	Oral Sessions (sections I-X)	Poster viewing (Hall of Institute of Life Sciences)
13.00 - 15:00	Lunch (Agronomia restaurant)	
15:00 - 17:00	Poster presentations (sections I-X)	Hall of Institute of Life Sciences
14:30 - 16:00	Round tables organized by Faculty of Veterinary Medicine	Council Room and Clinic of reproduction
19:00 - 24:00	Banquet (tbe)	
Saturday, 26th of September 2015		
08:00 - 21:00	Transylvania tour – optional (35 EURO) Visit of Alba Iulia, Sibiu (details in www.romaniatourism.com/sibiu.html) and Saline Turda (http://www.salinaturda.eu).	

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