

Vol 45, No 2 (2013)

Cover

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USAMB USAMVB

Research Journal of Agricultural Science

[more abstract](#)

Presentation: oral

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STUDY REGARDING GROUNDWATER QUALITY IN THE ARANCA RIVER BASIN DURING 2008-2009 PERIOD

pag. 3-8

N. BĂGHINĂ, Antoanela COZMA, Ariana VELCIOV, Lia MICULA, G. BUJANCA

The study presents the quality of groundwater in the Aranca Basin during the 2008-2009, achieved through the hydro geological drillings I, II for the freatic layer pollution and...

[more abstract](#)*groundwater, river basin, water quality, drilling, monitoring program*

Presentation: oral

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THE NEED OF TECHNICAL RULES CONCERNING ENVIRONMENT AND ESPECIALLY SOIL PROTECTION COMPLIANCE, WHEN SEWAGE SLUDGE IS USED IN AGRICULTURE

pag. 9-15

N. BĂGHINĂ, Isidora RADULOV, Adina BERBECEA, AL. MOISUC, C. STROIA

Two dominant parameters are characterizing human society at the present stage of development: the rapid growth of world population, increasing food production requiring...

[more abstract](#)*sewage sludge, environment protection, soil, fertilizers*

Presentation: oral

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STUDY THE POSSIBILITY OF SOLID FLOW VOLUME REDUCTION IN A HYDROGRAPHICAL BASIN

pag. 16-25

Erika BEILICCI, Robert BEILICCI

In general, the effects of solid flow on hydrographical basin can be divided into positive and negative, negative ones with the highest weight. The most important adverse effects...

[more abstract](#)*hydrographical basin, soil erosion, solid flow, control.*

Presentation: oral

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HYDRAULIC CALCULATION OFF IRRIGATION CHANNEL CLOSURE (ADDUCTION I) IN IRRIGATION SYSTEM "FANTANELE-SAG" ON THE OVERLAPPING PORTION WITH INVESTMENTS "BUTTERFLY PARK & GOLF"

pag. 26-32

Erika BEILICCI, Robert BEILICCI

Golf and recreation base "Butterfly Park Golf course" is partially & overlaid with irrigation system "Fântânele-Sag," situated in Arad County, Romania, in the Mures plain, South...

[more abstract](#)*hydraulic calculation, irrigation channel closure, irrigation systems.*

Presentation: oral

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SOIL MECHANICS

pag. 33-38

R. BERTICI, Gh. ROGOBETE, Adia GROZAV, Laura SMULEAC

Mechanical behavior covers strength, shear strain, resistance to shearing, shrinking, swelling, compaction, volumetric compressibility, deformation, permeability and seepage...

[more abstract](#)*compressibility, strength, compaction, consistence, soil*

Presentation: oral

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MINIMUM CONSERVATION MEASURES FOR LUNCA POGANISULUI PROTECTED AREA

pag. 39-43

Cristian BOSTAN, Florian BORLEA, Alma NICOLIN, Ioan BĂNĂȚEAN-DUNEA, Adina HORABLAGA, Adina HORABLAGA, Ionel SAMFIRA

The anthropic activities together with the demographic growth and the overexploitation of the natural resources represent the most important way of the biodiversity degradation...

[more abstract](#)*conservation measures; natural area; Lunca Poganisului; Fritillaria meleagris*

Presentation: oral

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RESEARCH REGARDING SURFACE AND DEPTH GROUND WATERQUALITY FROM BEGA-TIMIŞ RIVER BASIN, IN 2008-2009 PERIOD

pag. 44-51

ANTOANELA COZMA, RIANA VELCIOV, V. D. MIRCOV, MIHAELA PETCU, N. BĂGHINĂ

The contaminations problem of surface and depth groundwater sources with various chemicals substances in the Banat Basin Area represents a topical issue of large actuali...

more abstract

surface water, depth water, hydrogeological drillings, physical-chemical indicators, the maximum admitted limits

Presentation: oral

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MULTIFUNCTIONALITY AND FARM CONCENTRATION IN HUNGARY

pag. 52-60

R. CZIMBALMOS, Györgyi KOVÁCS, A. FEHÉR

In Hungary the concentration of land areas took place between 2005 and 2009 in such a way that the arable land used by farms of less than 50 hectares declined, while tha...

more abstract

AWU, farm concentration, diversification, agricultural employees, farmers motivation, GIS interpretation.

Presentation: oral

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RESEARCH ON STOPPING THE TREND OF DESERTIFICATION IN SOUTHWESTERN ROMANIA (VINGA PLAIN)

pag. 61-70

D. DICU, D. ȚĂRĂU, Silvica ONCIA, A. ȚĂRĂU, Alexandra CÂMPEAN

The purpose of research is accumulating scientific data on physical, hydro-physical and chemical characteristics of soil, necessary to support scientific and technical measur...

more abstract

biodiversity, cooperation, cohesion, sustainability, monitoring

Presentation: oral

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EVOLUTION OF HYDRO-PHYSICAL PROPERTIES OF A ALBIC LUVISOL FROM DUMBRAVA, TIMIS COUNTY

pag. 71-78

D. DICU, D. ȚĂRĂU, R. BERTICI, A. ȚĂRĂU, Aurelia PURDA, Liliana BREI

Research goal is to accumulate scientific data on development of components of agricultural land productivity, necessary to support of an methodology of their quality evalu...

more abstract

properties, soil, moisture, reserve, albic,

Presentation: oral

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THE INFLUENCE OF SOME NITROGEN AND POTASSIUM FERTILIZER RATES ON OILSEED WINTER RAPE YIELD AND SOME QUALITY INDICATORS ON A KASTANOZEM

pag. 79-84

Ana Maria DODOCIOIU, Stefan POPESCU, Andreea Maria NICOLAE, Romulus MOCANU, Marian DOBRE

Within 2008-2011 period there have been carried out experiments on typical kastanezem from Central Norther Plateau of Dobrogea with oilseed winter rape crop including t...

more abstract

oilseed rape, kastanozem, potassium, nitrogen, protein content oil content

Presentation: oral

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METHODS FOR MITIGATION THE NUTRIENT LOSSES ON SLOPE SOILS

pag. 85-89

Ana Maria DODOCIOIU, Andreea Maria Nicolae, Stefan Popescu, Romulus MOCANU, Marian DOBRE

On slopes soils there take place important nutrient losses that inflict pollution of surface waters. The most lost nutrient is nitrogen yet the phosphorus from soluble fertilizers ...

more abstract

slope, nutrient losses, Water Frame Directive, nitrogen, phosphorus

Presentation: oral

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PEDOLOGICAL FACTORS AND ZONAL PARTICULARITIES OF TIMIŞ COUNTY

pag. 90-97

Dan DOLOGA, Daniel DICU, Andrei ILIUȚĂ

Approached issues refer to a 869665 ha area of which 700477 ha of agricultural terrains. Vegetation growing conditions (with hard impact on terrain production), together w...

more abstract

zonal, factor, agricultural, pedological, agroeconomic,

Presentation: oral

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LAND RESOURCES FROM HILLS AND MOUNTAINS TIMIŞ COUNTY

pag. 98-103

Dan DOLOGA, Adrian ȚĂRĂU, Daniel DICU

The paper presents some aspects concerning the land resources in Tims county. The addressed issues is relating to an area of 253698 ha of which 148563 ha of agricultur...

[more abstract](#)

resources, land, agricultural, pedological, ecologic,

Presentation: oral

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MUTUAL RADIO COMMUNICATION (BASE AND ROVER ROVER BASE) TYPE IN RTK GPS MEASUREMENTS

pag. 104-110

Lucian Octavian DRAGOMIR

In this article, the authors present some of the new facilities offered by GPS technology producers in RTK (Real Time Kinematic) measurements. This facilities give to the us...

[more abstract](#)

mutual radio communication, GPS measurements

Presentation: oral

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MONITORING SURFACE BY GPS SURVEYING, 3D SCANNING, PRAID, HARGHITA

pag. 111-117

Lucian Octavian DRAGOMIR, Mihai HERBEI, Nicolae Ion BABUC, Claudiu Daniel TOMA

2 SCANSTATION laser scanning system manufactured by Leica is a terrestrial scanning system, which is used mainly in static measurement that can be used in a wide rang...

[more abstract](#)

GPS, GeoReference, ScanStation 2, scanning system, cloud points, registration, 3D section, digital model

Presentation: oral

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CU AND CD TOLERANCE OF BARLEY AND WHITE MUSTARD: POTENTIAL INDICATORS OF WATER CONTAMINATION WITH THESE HEAVY METALS

pag. 118-126

Sonja GVOZDENAC, Dušanka INĐIĆ, Slavica VUKOVIĆ, Vojislava BURSIC

Environmental pollution with heavy metals is one of the major current problems, because their uncontrolled release has already led to accumulation in water and sediment. ...

[more abstract](#)

Cu, Cd, barely, white mustard, metal tolerance, bioindicators

Presentation: oral

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THE ANALYSIS OF CARTOGRAPHIC PROJECTIONS USED IN ROMANIA

pag. 127-136

M. HERBEI, Roxana HERBEI, L. DRAGOMIR, A. SMULEAC

Basic documents that are made according to measurements and topographic surveying for the purpose of creating various projects are plans and topographic maps. Achie...

[more abstract](#)

maps, cartographic projections, Muffling, Cassini, Bonne, Lambert- Cholesky, Gauss Kruger, UTM, Stereographic projection

Presentation: oral

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USING GIS TECHNOLOGIES IN PROCESSING AND INTERPRETATION OF SATELLITE IMAGES

pag. 137-145

M. HERBEI, L. DRAGOMIR, C. Popescu, Silica ONCIA

The Geographic Information System is a collection of located, collected, stored and managed geographic data with the use of the computer, data which can be used to perf...

[more abstract](#)

GIS, Landsat, bands, combination, band math

Presentation: oral

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THE QUALITY OF THE TIMIS RIVER WATERS

pag. 146-151

Anisoara IENCIU, Silica ONCIA, Laura SMULEAC, P. FAZAKAS, C. A. NICOLICI

The study of the quality of a river's waters is of great ecological importance if we take into account that surface water pollution is, nowadays, a major issue amplified at globa...

[more abstract](#)

quality of a river's waters, the quality indices, nitrate content oxygen, chemical consumption, lead content

Presentation: oral

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USING PEDOLOGICAL AND AGROCHEMICAL INFORMATION FOR THE IMPLEMENTATION OF NITRATES DIRECTIVE IN THE ADMINISTRATIVE-TERRITORIAL UNIT VLADIMIRESCU

pag. 152-156

A. ILIUȚĂ, B. BEȘTI, D. DOLOGA

Research goal is to gather, process and interpret scientific information on the physical, chemical and hydro-physical of soils to provide specialized technical support for the g...

[more abstract](#)

fertilizer, vulnerable area, livestock, monitoring, environmental protection

Presentation: oral

EFFECT OF DIFFERENT COMPOST DOSES ON SOME PROPERTIES OF AN EXTENSIVE GRASSLAND SOIL

pag. 157-165

Györgyi KOVÁCS, G. TUBA, R. CZIMBALMOS, I. CSÍZI

After the millennium the utilization of the Hungarian grasslands is particularly important. We considered the efficient utilization of the agricultural areas - including grasslands...

more abstract

grass fertilization, soil moisture, CO₂ -emission, penetration resistance, GIS interpretation

Presentation: oral

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THE EVOLUTION OF TOTAL NUMBER OF FUNGI IN SOIL POLLUTED WITH CRUDE OIL

pag. 166-170

Mariana MARINESCU, M. DUMITRU, Anca LACATUSU, D. M. MOTELICA, M. MARINESCU

For bioremediation to be successful, the bioremediation methods depend on having the right microbes in the right place with the right environmental factors for degradation...

more abstract

total number of fungi, crude oil, pollution, cambic chernozem.

Presentation: oral

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BIOLOGICAL EVALUATION OF THE WATER QUALITY IN THE WATER FLOW IN THE SOUTHWESTERN PART OF THE SLOVAK REPUBLIC

pag. 171-181

Jaroslav NOSKOVIČ, Alena RAKOVSKÁ, Jana PORHAJAŠOVÁ, Mária BABOŠOVÁ, Terézia ČERYOVÁ

Assessment of the surface water quality in the whole Europe affected the Directive 2000/60/EC of the waters, according to which is the evaluation method of surface waters ...

more abstract

biodiversity, Čaradice stream, quality of water, macrozoobenthos, Slovak Republic

Presentation: oral

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CHANGES IN THE CONCENTRATION OF DISSOLVED OXYGEN IN WATER FLOW IN THE SOUTHWESTERN PART OF THE SLOVAK REPUBLIC

pag. 182-189

Jaroslav NOSKOVIČ, Alena RAKOVSKÁ, Mária BABOŠOVÁ, Jana PORHAJAŠOVÁ, Terézia ČERYOVÁ

All chemical and biological processes and living conditions for organisms in watercourses are significantly affected by oxygen conditions. The aim of this paper is to evaluate...

more abstract

watercourse, dissolved oxygen, Čaradice brook

Presentation: oral

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AN ANALYSIS OF THE PROJECTS IMPLEMENTED THROUGH MEASURE 112 – SETTING UP YOUNG FARMERS IN TIMIS COUNTY

pag. 190-200

Manuela Dora ORBOI, A. BĂNEȘ, T. IANCU

Community support to rural policy is a requirement in the conditions of reducing and eliminating intervention prices and the decoupling of direct payments from production, b...

more abstract

projects, measure 112, young farmers, rural policy

Presentation: oral

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ASPECTS REGARDING THE EVOLUTION THE ORGANIC FOOD MARKET IN THE WORLD

pag. 201-209

Manuela Dora ORBOI

Organic production systems are based on specific and precise standards of production, agropursuing the best, easy to sustain in terms of social, environmental and econo...

more abstract

market, demand, consumers, food products, increase

Presentation: oral

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WATER EXCESS DRAINAGE DURING OPERATIONS ON AGRICULTURAL LAND FITTED WITH DRAINAGE-DRAINING WORKS IN THE CATCHMENT AREA OF MOLDOVA RIVER, SUCEAVA COUNTY

pag. 210-220

Oprea RADU

For valorising the yield capacity of the moisture excess lands from the hydrographical basin of the Moldova River, Suceava County, they were performed until 1990, dry-drai...

more abstract

excess humidity, underground drainage, individual land plots, ridge-plough land development.

Presentation: oral

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INFLUENCE OF THE ANTHROPIC FACTOR OVER THE MODIFICATION OF GEOMETRIC AND HYDRAULIC ELEMENTS OF THE DRAINING NETWORK OF THE ROTOPĂNEȘTI-RĂDĂȘENI-FÂNTÂNA MARE SYSTEM, SUCEAVA COUNTY

pag. 221-231

Oprea RADU, F. FILIPOV

The drainage-desiccation developments on the Moldova river meadows in Suceava county werebuilt for the purpose of eliminating the excess water from both the terrain's ...

[more abstract](#)

humidity in excess, canal clogging, geometric and hydraulic components of the drainage network.

Presentation: oral

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NITRIC FOOD POLLUTION AS A RESULT OF INTENSIVE MINERAL NITROGEN FERTILIZATION

pag. 232-237

Hortensia RĂDULESCU

The study reveals the most important nitrate sources of agricultural origin which often pollutefood stuffs and drinking water. In areas with intensive nitrate fertilization and liv...

[more abstract](#)

nitrogen dose, vegetables, depth water, nitrate content, nitric overload;

Presentation: oral

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SOIL TREATMENT EFFECTS OF ZEOLITIC VOLCANIC TUFF ON SOIL FERTILITY

pag. 238-244

Hortensia RĂDULESCU

This paper presents the effect of zeolitic volcanic tuff on soil fertility as a consequence oftreating soil with zeolitic tuff supplies (clinoptilolite rich tuff). This high silicon tuff typ...

[more abstract](#)

zeolitic volcanic tuff, soil fertility, pH, humidity, cation content, crop yield;

Presentation: oral

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LANDSLIDES

pag. 245-251

Gh. ROGOBETE, Adia GROZAV, A. ȚĂRĂU

We can define a landslide as the movement of rock, detritus, or soils caused by the action ofgravity. It occurs often following torrential rain or earthquake, and even volcanic...

[more abstract](#)

hazard, vulnerability, friction, cohesion, stability, liquefaction

Presentation: oral

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SOIL GENESIS AND PROBLEMATIC SOILS

pag. 252-258

Gh. ROGOBETE, Adia GROZAV

In the civil engineering, the soils represent a relatively loose material originating from theupper rock layers or from the soil profile itself. There are many soil – forming proce...

[more abstract](#)

soil forming, civil engineering, quicksands, collapsible, expansive, dispersive

Presentation: oral

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SPECTRAL IMAGING IN THE EVALUATION OF THE CHLOROPHYLL CONTENT IN WHEAT

pag. 259-267

F. SALA, M. BOLDEA, I. GERGEN

The objective of our research was to evaluate the nutritional status expressed through thechlorophyll content in wheat crops, by using the analysis of the digital images tak...

[more abstract](#)

imagistic spectral analysis, digital image, visible spectrum, RGB, HSB, HSL, chlorophyll, wheat

Presentation: oral

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TOPOGRAPHIC ELEVATIONS FOR THE REGISTRATION OF OWNERSHIP RIGHTS OF IMMOVABLE PROPERTIES IN DUMBRAVITA, BASED ON LAW OF EDUCATION 1/2011

pag. 268-278

Adrian ȘMULEAC, Cosmin POPESCU

This paper was written at the request of the Banat University of Agricultural Sciences andVeterinary Medicine Timisoara, in order to pass these lands from the possession o...

[more abstract](#)

Public Domain of the Romanian State and the Administration of USAMBV Timisoara, immovable property cadastral data update, Law of Education 1/2001

Presentation: oral

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TOPOGRAPHIC SURVEYS FOR THE UPDATING OF SOIL IMPROVEMENT WORKS IN A TEACHING EXPERIMENTAL STATION

pag. 279-286

Adrian ȘMULEAC, Silvica ONCIA, Cosmin POPESCU, Mihai HERBEI, Laura ȘMULEAC

For the purposes of this paper, the measurements were taken in the unincorporated area ofTimisoara. Their aim is to make an inventory of the lands belonging to Banat Un...

[more abstract](#)

inventory of lands, topographic survey, World Geodetic System 1984, satellite positioning

Presentation: oral

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A STUDY ON THE POSSIBILITIES OF USING GROUNDWATER IN RURAL COMMUNITIES IN SOUTH-WESTERN BANAT PLAIN

pag. 287-293

Laura SMULEAC, Silvica ONCIA, Anisoara IENCIU, R. BERTICI, A. ŞMULEAC, C. PIŢIGA

This paper is of great ecological, social and economic interest. Water is a vital and vulnerablenatural resource for life and society. Nevertheless, it is one of the worst manag...

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groundwater quality, water supply, irrigation

Presentation: oral

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EVOLUTION OF THE COMPONENTS OF AGROECOSYSTEMS PRODUCTIVITY FROM BANAT PLAIN, MURES-BEGA INTERFLUVE, IN 2011-2012 AGRICULTURAL YEAR

pag. 294-302

A. ŢĂRĂU, V. TABĂRĂ

The research are for grounding of sustainable agriculture system, responding of local demandsof establishing scientific database and to develop technology actions necess...

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plant culture, system, influence, component, agroecosystem

Presentation: oral

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USING PEDOLOGICAL INFORMATION TO DEFINE LAND PRODUCTIVITY AND ENVIRONMENTAL PROTECTION IN MOUNTAIN AND PRE-MOUNTAIN AREA OF TIMIS COUNTY

pag. 303-308

D. ŢĂRĂU, Gh. ROGOBETE, D. DICU, R. BERTICI

The purpose of research is accumulating scientific data on the physical, chemical andmicrobiological properties of soils, data found in soil studies prepared by local OSPA s...

[more abstract](#)

biodiversity, cooperation, cohesion, sustainability, monitoring, risk

Presentation: oral

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SOIL RESOURCES EVALUATION FOR ESTABLISHING PRODUCTION CAPACITY OF LANDS OF SC ALCRIST LLC DEVESELU, OLT COUNTY

pag. 309-314

LICA TUTI, D. ŢĂRĂU

Information based on soil, environmental factors were established soil resources and productivecapacity of the land of SC ALCRIST LLC Deveselu. The results of this work...

[more abstract](#)

soil resources, land conditional evaluation, evaluation marks, technical sheets, estimated production, production obtained gross profit.

Presentation: oral

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