

Contents

Vol. 38, No. 2, 2012

A simultaneous English language translation of this journal is available from Allerton Press, Inc.
Distributed worldwide by Springer. *Russian Agricultural Sciences* ISSN 1068-3674.

Plant Industry

- Ecological Testing of Ultra-Early Common Wheat Forms under Various Photoperiod Conditions
A. V. Vrazhnov, V. A. Koshkin, B. V. Rigin, E. K. Potokina, V. A. Tyunin, E. R. Shreider, E. A. Alekseeva, I. I. Matvienko, and Z. S. Pyzhenkova 79
- Characteristics of NaCl-Induced Oxidative Stress and Dynamics of Antioxidant Enzyme Activity in Winter Triticale Organs
A. R. Garifzyanov, N. N. Zhukov, Yu. O. Pantyukhin, and V. V. Ivanishchev 86
- Significance of β -Glucan in Barley Grain during Breeding for Brewing and Nutritional Properties
A. I. Abugalieva, B. S. Sariev, S. Grando, F. El-Haramein, and V. M. Shevtsov 89
- Efficacy of the Protective Action of Growth Regulator Ribav-Extra on Maize Seedlings under Temperature Stress
A. S. Lukatkin and D. N. Pogodina 94
- Change in Chemical Composition and Yield of Hungarian Sainfoin under the Effect of Bee Pollination in the Altai Forest Steppe
D. M. Pankov 98
- Effects of Different Temperatures and Duration on Germination of Lentil (*Lens culinaris* Medik.) Seeds
Sayed Saeid Hojjat and Merudjan Galstayan 101
- Brassinosteroid-Mediated Enrichment in Yield Attributes, Active Constituents and Essential Oil Production in *Mentha arvensis* L.
M. Naeem, Mohd. Idrees, M. Masidur Alam, Tariq Aftab, M. Masroor A. Khan, and Moinuddin 106
- Study Some Characteristics in Global Chickpea Collection
Abbas Biabani and Lynne Carpenter Boggs 114
-

Methodology

- Mathematical Approaches to Analysis of Variety Test Data
V. P. Yakushev, A. V. Bure, and V. V. Yakushev 118
- Determination of Area of Drought-Affected Crops Based on Satellite Data (Exemplified by Crops in Chuvashia in 2010)
M. A. Medvedeva, I. Yu. Savin, and V. A. Isaev 121
-

Plant Protection

- Genetic Diversity of Russian Common Wheat Varieties for Leaf Rust Resistance
E. I. Gul'tyaeva 125
-

Pedology

- Analysis of the State of the Soil Cover in the Agricultural Zone of Southern Far East Russia
N. M. Kostenkov and V. I. Oznobikhin 129
-

Animal Husbandry

Intrabreed Genetic Differentiation of Local Breeds of Mongolian Cattle and Small Stock under Different Ecogeographic Breeding Conditions

*T. T. Glazko, E. E. Astaf'eva, A. V. Pheophilov, A. V. Kushnir,
Yu. A. Stolpovskii, and V. I. Glazko*

133

Effect of Na⁺ and K⁺ Ions on ATPase of Cattle Erythrocytes

E. Yu. Fedorova, V. V. Mosyagin, and V. I. Maksimov

137

Effect of Using Amaranth Hydrolysate on Efficiency of Raising Weaner Pigs

V. N. Shilov and A. P. Zharkovskii

139

Ornithology

Evolution of Bird Ranges in Connection with Agroecoeconomic Activity under Changing Climate Conditions in the Middle Volga Region of Russia

V. I. Astradamov, I. F. Kargin, and S. N. Nemtsev

143

Veterinary Science

ELISA Test System for Serological Diagnosis of Bovine Parvovirus Infection and Determination of Postvaccinal Antibody Level

M. A. Efimova, A. V. Ivanov, Kh. Z. Gaffarov, and A. I. Yarullin

149

Efficacy of Using Roncoleukin in Combined Therapy of Experimental Trichinellosis in Mice

O. I. Mamykova and L. A. Napisanova

153

Storage and Processing of Agricultural Products

Analysis and Optimization of the Technological Process of Extracting Flavonoids from Grape Pomace

A. A. Aralina, M. A. Selimov, and V. V. Sadovoy

157

Demetalization of Red Wines with Chitinous Adsorbents

A. N. Tumasjiev and N. V. Lavrova

160

Agroforestry Amelioration

Optimizing Snow Distribution and Available Moisture Supply in Contour Field-Protecting and Runoff-Regulating Forest Belts and in Forest-Ameliorated Landscapes

K. N. Kulik, A. T. Barabanov, and V. I. Panov

165

Mechanization

Investigation of a System for Automatic Driving of a Tractor Unit along Interrows of Perennial Plantings

M. A. Chupanov

169
