

Review

- Influence of heat stress on reproductive performance in dairy cows and opportunities to reduce its effects – a review**.....3
T. Penev, D. Dimov, N. Vasilev, J. Mitev, Tch. Miteva, I. Marinov, M. Stojnov

Genetics and Breeding

- Date of ear emergence: a factor for notable changing the grain yield of modern winter wheat varieties in different environments of Bulgaria**.....12
N. Tsenov, T. Gubatov, I. Yanchev

- Grain quality of mutant lines of six-rowed barley**.....19
B. Dyulgerova, N. Dyulgerov

- Application of P4 rapid test and exogenous source of progesterone in prevention of early embryonic death in dairy cows**.....24
G. Bonev

Nutrition and Physiology

- Seasonal variations in hematological profile of Holstein dairy cows as an indicator for physiological status assessment**.....28
M. Mekroud, N. Arzour-Lakehal, N.A. Ouchene-Khelifi, N. Ouchene, A. Titi, A. Mekroud

- Utilization of *Corchorus olitorius* leaf as binder in the diet of *Oreochromis niloticus* fingerlings**.....34
I.O. Oke, E. O. Adeparusi, A.A. Dada

Production Systems

- Fuel consumption of a machine-tractor unit in direct sowing of wheat**.....40
G. Tihanov, N. Ivanov

- Productivity and quality of experimental sunflower hybrids in climatically different years**.....43
M. Drumeva

- Length-weight relationship of European catfish (*Silurus glanis* L.) fry reared at different stocking densities under controlled conditions**.....47
V. Krasteva, M. Yankova

Agriculture and Environment

- Influence of long-term fertilization and environments on test weight of durum wheat (*Triticum durum* Desf.) grain**.....52
G. Panayotova, S. Kostadinova, S. Stefanova-Dobрева, A. Muhova

Productivity and feed quality of Sudan grass (<i>Sorghum sudanense</i> (Piper) Stapf.) and sweet sorghum forms.....	57
S. Enchev	
Physiological responses of <i>Vicia faba</i> to copper toxicity.....	63
S. Benouis, H.A. Reguieg Yssaad, E.H. Bouziani, I. Khedim	
Assessment of morphological variations in wild populations of Nile tilapia from South West Nigeria.....	70
O.M. Popoola, A. Ebiwonjumi	
Product Quality and Safety	
Main parameters of essential oil of two species from genus <i>Pelargonium</i>, cultivated in laboratory conditions.....	76
V. Badzhelova	
Isolation and characterization of <i>Lactobacillus</i> microflora from homemade white sheep's milk cheeses during ripening.....	79
S. Stojanovski, G. Cilev, B. Trajanoska	
Nutritional and functional attributes of raw and grilled crabmeat.....	83
R.O. Moruf, M.A. Taiwo, Q. Adebayo	
Agricultural Economics	
Non-parametric decomposition of total factor productivity growth in yam production in North-Central Nigeria.....	91
R.G. Isonguyo, M.A Ojo., A.J. Jirgi, E.S. Yisa	
Economic values of productive and functional traits in sheep of Bulgarian dairy synthetic population.....	99
S. Slavova, S. Laleva	