

Acta fytotechn zootech

2021, vol. 24

Monothematic Issue

Problems and Risks of Animal Production

ISSN 1336-9245

Invited Editor: Marko HALO

**Acta
fytotechnica
et
zootecnica**

Scientific journal for phytotechnics and zootechnics

**Slovak University of Agriculture in Nitra, Slovakia
Faculty of Agrobiolgy and Food Resources**

***Acta fytotechnica et zootechnica* :: Open access, peer-reviewed scientific journal of the Faculty of Agrobiolgy and Food Resources, Slovak University of Agriculture in Nitra**

Indexing

The Journal is indexed by Scopus (Elsevier).

Copyright & Licenses

Creative Commons License

This work is licensed under a Creative Commons Attribution 4.0 International License (CC-BY)

Screening of plagiarism

All manuscripts are checked by the Crossref service Similarity Check (iThenticate software).

Charges & Fees

Articles are published without article submission and article processing charges. For end-users are published papers free of charge.

Peer review

Blind review.

eISSN 1336-9245 / pISSN 1335-258X (until to 2013)

Journal website: <http://www.acta.fapz.uniag.sk>

Journal periodicity: 4 regular issues per year & monothematic issue as appropriate

Abbreviation: *Acta fytotechn zootechn*

Invited Editor

Marko HALO, Slovak University of Agriculture in Nitra, Slovakia

Executive Editor

Radovan KASARDA, Slovak University of Agriculture in Nitra, Slovakia

Session Editor

Ondrej HANUŠOVSKÝ, Slovak University of Agriculture in Nitra, Slovakia

Copy Editor

Eva MLYNEKOVÁ, Slovak University of Agriculture in Nitra, Slovakia

Layout Editor

Tatiana ŠMEHILOVÁ, Slovak University of Agriculture in Nitra, Slovakia

Acta fytotechnica et zootecnica, 24(2021) :: Monothematic Issue
Problems and Risks of Animal Production

CONTENTS

Salivary cortisol concentrations changes in horses during daily routine 1
Martin Massányi, Marko Halo, Eva Mlynekova, Marko Halo Jr., Peter Massányi DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.1-4	
Live weight changes during lactation in Montbéliarde cows 5
Tomáš Kopec, Gustav Chládek, Daniel Falta, Milan Večera DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.5-10	
Eggs quality of Oravka breed hens depending on hen´s age 11
Emilia Hanusova, Anton Hanus, Cyril Hrnčár DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.11-14	
High taurine concentrations negatively effect stallion spermatozoa parameters in vitro 15
Marko Halo Jr., Martin Massányi, Katarína Tokárová, Filip Tirpák, Hana Greifová, Dušan Solár, Marko Halo, Peter Massányi DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.15-19	
Evaluation of the effect of cow exterior on calf size at parturition 20
Radek Filipčík, Kristýna Tučková, Tomáš Kopec, Zuzana Rečková DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.20-24	
Effect of weaning and sex on meat fatty acid profile of grazing lambs 25
Martin Janíček, Daniel Volna, Marek Repkovský, Milan Margetín DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.25-28	
Blood parameters and immune responses during haemonchosis 29
Dominika Mravčáková, Daniel Petrič, Katarína Kucková, Marián Várady, Zora Váradyová DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.29-32	
Morphological changes of reproductive organs during egg formation of autochthonous Oravka hens 33
Cyrl Hrnčár, Emília Hanusová, Anton Hanus, Dariusz Kokoszyński, Dorota Banaszewska, Terézia Hegerová, Jozef Bujko DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.33-36	
Evaluation of the hygienic condition of the slaughterhouse 37
Mária Vargová, Naďa Sasáková, Katarína Veszelits Laktičová, František Zigo DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.37-40	
The impact of calving season, dams' parity on milk yield and gestation length of dairy cows 41
Šimon Mikláš, Vladimír Tančín, Petr Sláma, MAroš Čobirka, Michal Uhrinčať, Martina Vršková, Lucia Mačuhová DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.41-44	

- The effect of *Saccharomyces cerevisiae* additive to cattle ration on milk yield of dairy cows** 45
Ivan Imrich, Štefan Čopík, Eva Mlyneková, Juraj Mlynek, Peter Haščík, Tomáš Kanka
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.45-48>
- The impact of somatic cell count on milk yield and composition** 49
Kristína Tvarožková, Vladimír Tančin, Michal Uhrinčať, Lucia Mačuhová, Šimon Miklaš
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.49-52>
- Sheep mastitis caused by staphylococci and streptococci and their influence on oxidative status** 53
František Zigo, Zuzana Farkašová, Mária Vargová, Katarína Veszelits Laktičová, Jolanta Bujok, Ewa Pecka-Kielb
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.53-57>
- Prognostic impact of neck responders on conception rate of Czech Fleckvieh Simmental cows** 58
David Jeník, Daniel Falta, Tomáš Kopec, Milan Večera, Gustav Chládek
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.58-61>
- Difference in exploration and use of PET bottle and horseshoe for environment enrichment in piglets**62
Peter Juhas, Terézia Hegerová, Andrea Krčková, Petra Lípová, Ondrej Debrecéni
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.62-66>
- The effect of xanthohumol on carcass and oxidation parameters in the meat of Japanese quail**67
Zuzana Lacková, František Zigo, Silvia Ondrašovičová, Miólan Vasil', Zuzana Farkašová
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.67-70>
- The analysis of selected physical and technological parameters of pork quality depending on intensity of the pigs growth in fattenin**71
Ondrej Bučko, Ivan Bahelka, Katarína Hozáková, Dominika Hellová, Klára Vavrišínová, Peter Juhás
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.71-74>
- Comparison of the effectiveness of selenium and vitamin E supplementation on the health of the mammary gland of sheep**75
Milan Vasil', František Zigo, Zuzana Lacková, Silvia Ondrašovičová, Ewa Pecka Kielb, Jolanta Bujok
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.75-79>
- Effect of gluten on the quality of meat products**80
Jana Vyrostková, Ivana Regecová, František Zigo, Nikola Dančová
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.80-84>
- Dependence of milk production of dairy sheep on climate conditions**85
Milan Margetín, Mária Milanová, Marta Oravcová, Martin Janíček, Klára Vavrišínová
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.85-88>
- The analysis of serum mineral profile of cows before and after calving: A case study**89
Tomáš Kanka, Michal Rolinec, Ivan Imrich, Eva Mlyneková, Radovan Kasarda, Martin Fik, Cyril Hrnčár
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.89-92>
- The impact of the addition of natural materials on the composting of animal manure**93
Eva Šubová, Naďa Sasáková, František Zigo, Ján Kachnič, Katarína Veszelits Laktičová, Mária Vargová
DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.93-97>

Costs, income and economic efficiency of dairy sheep flocks98
Marta Oravcova, Ján Huba, Milan Margetín DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.98-101	
The relationship between claw diseases of dairy cows and the protein and urea content of the milk102
Pavel Slovák, Vladimír Hisira, Paulína Marčeková, Pavol Mudroň DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.102-104	
Influence of indirect factors and its effect analysis on performance level of Slovak warmblood horse breed105
Marko Halo, Eva Mlyneková, Martin Massányi, Dušan Solár, Marko Halo Jr., Nina Moravčíková DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.105-108	
New trends in the use of recycled manure solids in dairy housing109
František Zigo, Zuzana Lacková, Milan Vasil', Silvia Ondrašovičová, Naďa Sasáková, Jana Výrostková, Ewa Pecka-Kielb, Zuzana Farkašová, Jolanta Bujok DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.109-113	
Lifetime performance and longevity traits in Slovak Spotted dairy cows in dependence on feeding system114
Ján Huba, Marta Oravcová, Ivan Pavlík, Ondrej Pastierik, Ján Tomka, Miroslav Záhradník DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.114-117	
The veal quality of Slovak Simmental breed in relation to sex118
Klara Vavrišinová, Martin Janíček, Jaroslav Dóbi, Milan Margetín, Peter Juhás DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.118-121	
Evaluation of Pregnancy Rate and Length of Pregnancy after Intracervical Insemination in Zwartbles Sheep122
Vojtěch Pešan, Martin Hošek, adek Filipčík, Zuzana Rečková DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.122-126	
Influence of estrus on changes of locomotion activity and rumination time in cattle dams127
Peter Strapák, Mária Mičiaková, Eva Strapáková, Petra Neirurerová, Jozef Bujko DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.127-130	
Influence of the breeding environment factors on the number of the weaned piglets131
Ivan Imrich, Eva Mlyneková, Juraj Mlynek, Ján Guranič DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.131-134	
The effect of claw disorders on the locomotion activity of dairy cows135
Petra Neirurerová, Peter Strapák, Terézia Hegerová DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.135-139	
The evaluation of the relationship of lactose to production and reproduction traits in different breeding conditions of the Slovak Spotted dairy cows140
Jozef Bujko, Juraj Candrák, Peter Strapák, Július Žitný, Cyril Hrnčár, Mariusz Bogucki DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.140-144	
Analysis of movement mechanics in the training process of sport horses145
Eva Mlyneková, Ivan Imrich, Eva Strapáková, Jana Ivanič-Porhajášová, Martin Massányi, Dušan Solár, Tomáš Kanka DOI: https://doi.org/10.15414/afz.2021.24.mi-prap.145-149	

Evaluation of the growth performance and some blood parameters in broilers with the addition of humic substances in the diet150

Pavel Nad', Andrej Marcin, Lukáš Bujňák, Magdaléna Skalická, Soňa Gancarčíková

DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.150-154>

Evaluation of the body conformation traits by system FleckScore and its relationship to longevity of Slovak Simmental cows155

Eva Strapakova, Ivan Pavlík, Peter Strapák, Juraj Candrák

DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.155-158>

Effect of humic acid substances on proteolytic activity in intestine, digestibility of crude protein and protein content in the blood of broiler chickens159

Andrej Marcin, Pavel Nad', Magdaléna Skalická, Lukáš Bujňák, Soňa Gancarčíková

DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.159-163>

Effect of prebiotic and probiotic supplements to increase live weight of calves in the diet164

Luboš Zábranský, Naděžda Kernerová, Eva Petrášková, Anna Poborská, Miloslav Šoch, Martin Kantor, Josef Kučera

DOI: <https://doi.org/10.15414/afz.2021.24.mi-prap.164-167>