

Abstracts of articles

AGRICULTURE

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THE PRODUCTIVITY OF PEAS BY GROWTH STIMULATORS FERTIGRAIN APPLICATION IN THE CONDITIONS OF THE MIDDLE VOLGA REGION FOREST-STEPPE

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Keywords: safety, photosynthetic, capacity, yield, digestible, protein, exchange.

The purpose of research is the development of peas productivity increasing ways in the conditions of Middle Volga forest steppe. Results of researches during 2013-2015 with an assessment of photosynthetic activity indexes, structure of harvest, productivity and fodder advantages of peas by different methods of crops preseeded processing and are given by biogrowth factors Noktin and Fertigrain. The largest square of leaves 45.0-47.4 thousand sq.m/ha is formed in a phase of blossoming peas on options at an inoculation of seeds by Rizotorfin and Rizotorfin + Fertigrain Start with after-treatment of crops with biostimulator Fertigrain Foliar in a phase of 4-6 leaves. Photosynthetic potential of crops for vegetation was made without processing of seeds and crops on vegetation of 1.275 million sq.m/ha in a days, when processing seeds preparations Fertigrain Start it raises to 1.305 million sq.m/ha in a days. Net productivity of a photosynthesis reaches maximum in options with processing of seeds Noktin + Fertigrain Start and Rizotorfin + Fertigrain Start and processing of crops on vegetation with an index 4.00-4.09 g/m² days. The conducted researches showed that all options of processings of seeds and crops increase the efficiency of peas. The greatest productivity of peas 2.04 t/ha and 2.12 t/ha is reached on the crops processed with preparation Fertigrain Foliar in budding phase against processing of seeds preparations Rizotorfin + Fertigrain Start and Noktin + Fertigrain Start. These options differ also in the best fodder advantages with collecting nonvolatile solid 1.82-1.90 t/ha, the feed protein units 2.32-2.41 thousand/ha and an exit of an exchange energy 23.35-24.27 GDzh/ha. Results of the conducted researches Noktin and Fertigrain allow todraw the conclusion for application effectiveness of preseeded inoculation of seeds and processing of crops vegetation by preparations.

Bibliography

1. Alenin, P. G. Improving the technology of cultivation of peas varieties in the conditions of forest-steppe of the Middle Volga Region / P. G. Alenin, S. A. Kshnikatkin // *Niva Povolzhya*. – 2012. – №1. – P. 5-9.
2. Blagoveshchenskiy, G. V. Innovative potential of legume grass diversity // *Forage production*. – 2013. – №12. – P. 8-9.
3. Vasin, A. V. Efficiency of legumes in different levels of mineral nutrition // *Advances in science agro-industrial complex : collection of scientific works*. – Samara : PC SSAA, 2014. – 442 p.
4. Vasin, V. G. Comparative productivity of barley and peas in the application of growth promoters / V. G. Vasin, P. O. Kozhevnikova, E. V. Karlov // *The Contribution of young scientists into agricultural science : mat. International scientific-practical conference*. – Kinel : PC SSAA, 2015. – P. 36-43.
5. Golopyatov, M. T. The Influence of technological and biological factors on the yield and quality of high amilo wrinkled varieties of peas / M. T. Golopyatov, N. O. Kostrikova // *Leguminous and Groat crops*. – 2012. – №2 – P. 62-66.
6. Erokhin, A. I. the Effectiveness of new drugs phyto regulators for the growth and development of plants and yield of pea // *Leguminous and Groat crops*. – 2013. – №2(6) – P. 120-124.
7. Kiseleva, L. V. Comparative productivity of grain senage feed mixes at different levels of mineral nutrition / L. V. Kiseleva, E. O. Trofimova, A. G. Kotruhov // *Advances in science agro-industrial complex : collection of scientific works*. – Samara : PC SSAA, 2014. – P. 110-115.
8. Savenko, O. V. System «Fertigen» for grains: proven performance // *Agrarian Stavropol*. – 2013. – №5. – P. 2-6.

MONITORING OF SOFT WINTER WHEAT ENTOMOCOMPLEXES IN FOREST-STEPPE OF SAMARA AREA

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Keywords: winter, wheat, phytophagous, entomophagous, entomocomplexes, dynamics.

The purpose of researches is to study the effect of non-pesticidal pest against the background of soft winter wheat cultivation for seasonal dynamics of composition and abundance of pests and their entomophages in the conditions of Samara Region forest-steppe. Insects was collected with an entomological net for 10-50 flaps in triple repeated in autumn and spring-summer periods of wheat vegetation. In the conditions of the non-use of insecticides of entomocomplexes included insects-phytophagous which are potential vectors of viruses, phytoplasmas; suctorial and gnawing phytophagous; insects are developing inwardly wheat stems; entomophagous. Entomophagous regulating the density of phytophagous were represented by predators and parasites. In 2012-2013 main vector of phytoplasmas (*Psammotettix striatus*) and insects are developing inwardly wheat stems (*Oscinella pusilla*, *O. frit*, *Delia platura*) had a high density in the autumn period in the stage of wheat seedling growth and in spring in the stage of stem elongation. In 2013-2014 the density of any pests were not reached economic threshold values.

Bibliography

1. Drobiasko, R. V. Biocenotic approach in adjusting of suctorial fitofagous quantity of winter wheat in the central area of the Krasnodar Region : dis. ... cand. of biol. sciences : 06.01.11 / Drobiasko Roman Valerievich. – Krasnodar, 2003. – 131 p.

2. Markelova, T. S. Viral diseases of wheat and their main carrier in the conditions of Lower Volga / T. S. Markelova, E. A. Baukenova // Agricultural Biology. – 2013. – №3. – P. 117-123.

3. Schedov, V. P. Agroecological aspects of adjusting of biocenosis of winter wheat in Lower Volga : dis. ... cand. of agricultural sciences : 03.00.16 / Schedov Viacheslav Pavlovich. – Volgograd, 2008. – 178 p.

4. Shpanev, A. M. About the estimation of complex harmfulness of basic fitosanitary objects for winter wheat in the conditions of southeast of the Central-Chernozem Area of Russia / A. M. Shpanev, B. A. Dorochoy // Agricultural Biology. – 2009. – №5. – P. 94–102.

5. Oerke, E. C. Crop losses to pests // Journal of Agricultural Science. – 2006. – V.144. – P. 31-43.

PHOTOSYNTHETIC ACTIVITY AND YIELD OF BARLEY WITH THE APPLICATION OF FERTILIZERS AND GROWTH STIMULANTS

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Keywords: barley, peas, yield, stimulant, photosynthetic, activity, fertilizer.

Research objective is increasing the yield of barley varieties in the conditions of forest-steppe of the Middle Volga Region. Are the results of studies for 2014-2015 with the assessment of yield structure indicators, the dynamics of accumulation of dry matter, photosynthetic capacity and leaf area in different varieties of barley compared to pea for different backgrounds of mineral nutrition and processing of crops in different growth stimulants Avibit, Aminokat, Megamix N10 in the conditions of Middle Volga Region forest-steppe. In three-factor experience included two backgrounds of mineral fertilizers: no fertilizers, N₄₅P₄₅K₄₅ (factor A), five barley varieties: Helios, Sonnet, Golden

eagle, Hawk, and Bezenchukskaja 2 peas Flagship 12 (factor B), treatment of crops during vegetation is at tillering drugs: Avibit, Aminokat, Megamix N10 (factor C). The research identified that in all options the treatment of crops and application of fertilizers increase the performance of the photosynthetic activity and cause the greatest increase of all crops options for processing. Maximum yield over the study years provide barley varieties of Helios with the treatment of crops during vegetation drug Megamix N10 as fertilizer and $N_{45}P_{45}K_{45}$ will be 2.43-2.90 t/ha.

Bibliography

1. Vasin, F. V. Effectiveness of growth stimulators in the cultivation of forage / A. V. Vasin, N. V. Vasina, E. O. Trofimova // Contributions of young scientists in agricultural science : checkmate international scientifically-practical Conference. – Kinel : PC SSAA, 2015. – P. 96-103.
2. Vasin, A-r. V. The effectiveness of growth stimulators for growing forage crops // Herald of the AIC the Upper Volga. – 2010. – №2(10). – P. 17-20
3. Volkova, N. A. Influence of growth regulators on the development of forage crops // Protection and quarantine of plants. – 2008. – №2(10). – P. 29-34.
4. Efremov, E. V. Efficiency natural growth regulators / E. V. Efremov, N. A. Kirillov, A. I. Volkov // Sugar beet. – 2011. – №8. – P. 29-31.
5. Karlov E. V. Comparative productivity of varieties of barley and peas when applying growth factors / E. V. Karlov, O. P. Kozhevnikova // Contributions of young scientists in agricultural science : checkmate international scientifically-practical Conference. – Kinel : CP SSAA, 2015. – P. 36-43.
6. Kiselyova, L. V. Comparative productivity of forage zernosenažnyh at different levels of mineral nutrition / L. V. Kiseleva, E. O. Trofimova, A. G. Kotruhov // Scientific agriculture : scientific papers. – Samara : CP SSAA, 2014. – P. 110-115.

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FLAXSIBILITY OF POTATO VARIETIES IN THE URALS STEPPE ZONE

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Keywords: potatoes, variety, productivity, ecological, flexibility, stability.

The purpose of research is to identify potato varieties with high ecological flexibility and stability in the conditions of steppe zone of the Urals. The experience was laid by one-factor circuit in 3-fold repetition. The studies were conducted for middle and middle-early varieties of potatoes domestic and foreign selection. We define the parameters of their ecological plasticity and stability analysis using two-factor model (conditions and years). In 3-year data were allocated potato varieties – Artemis (58.9 t/ha), Aerrow (51.6 t/ha), Riviera (51.1 t/ha), Romano (55.2 t/ha). The regression coefficient ranged from 0.54 to 2.59, the stability coefficients vary from 0.20 to 49.04. It was found that the regression coefficient is significantly greater than one, indicating that the progressive increase in yield under the influence of improved growing conditions in such varieties as: Rainbow (Ri 2.19), Sail (Ri 2.59), Memory Kovalenko (Ri 2.41) Tarasov (Ri 2.05), Karatop (Ri 2.19) – varieties of intensive type. Revealed grade plastic – Nevsky, Spiridon, Romano, Aerrow, Scarlett Red, Riviera, Curator (Ri=0.70-1.08).

Bibliography

1. Zykin, V. A. Ecological plasticity of agricultural plants (methodology and evaluation) / V. A. Zykin, I. A. Belan, V. S. Yusov, R. S. Kiraev [et al.]. – Ufa, 2011. – 97 p.
2. Kazak, A. A. Ecological plasticity and adaptability of varieties to the conditions of the Tyumen Oblast / A. A. Kazak, L. I. Yakubyshina // Russian agricultural and food policy. – 2015. – №8 (20). – P. 63-67.
3. Kruzhilin, I. P. Irrigation in ensuring the food security of Russia / I. P. Kruzhilin, V. V. Melihov. – Volgograd, 2007. – 200 p.
4. Kruzhilin, I. P. Improving agricultural practices potato growing under irrigation in the steppe zone of Southern Urals / I. P. Kruzhilin, A. A. Mushinsky [et al.]. // Agrarian Russia. – 2012. – №5. – S. 2-5.

5. Mushinskii, A. A. Theoretical and experimental study of cultivation technology tuber-root crops and annual clover under irrigation in the steppe zone of Southern Urals : author. dis. ... dr. of agricultural sciences : 06.01.09 / Mushinskii Aleksandr Alekseevich. – Volgograd, 2009. – 42 p.

6. Mitruyk Yu. V. Economic-biological evaluation of new potato varieties in the conditions of the Udmurt Republic // Breeding, seed production and technology of fruit and berry crops and potato : collection of scientific papers. – Chelyabinsk, 2008. – P.110 -113.

7. Sergeeva, L. B. Overall adaptive capacity and environmental sustainability of potato varieties depending on the background of mineral nutrition and / L. B. Sergeeva, E. P. Shanina // Russian agricultural and food policy. – 2014. – №6(18). – P. 19-22.

8. Ulyanenko, L. N. The response of different ecological plasticity of potato varieties in the growing conditions / L. N. Ulyanenko, A. S. Filipas, T. A. Amelyushkina, P. S. Semeshkina // Protection and quarantine of plants. – 2012. – №8. – P. 45 - 46.

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THE AGROPHYTOCENOSIS FORMATION OF EXTENDING THE LONGEVITY GRASS PRODUCTIVE WITH EAST GALENA OFFICINALIS L. BY VARIOUS METHODS

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Keywords: goat's rue, fertilizer, old-age grass, photosynthetic, potential, accumulation.

The purpose of researches is development of old-age grass with Central Volga area East Galena Officinalis L. productive longevity extension methods. Results of researches for 2013-2015 with an assessment of structure factor of harvest, dynamics of accumulation of green material, nonvolatile solid, to the photosynthetic potential of a East goat's rue are given in article. Entered three-factor experiment in studying of formation of an agrophytocenoses on extension of productive longevity of herbage: options of processing of the soil loosening on 35-38 cm, loosening on 14-16 cm with a disking on 4-6 cm, a disking on 4-6 cm (factor A); application of fertilizers of $N_{48}P_{48}K_{48}$ and $N_{32}P_{32}K_{32}$ (factor B) and costrets subsowing (factor C). By researches it is revealed that at a rejuvenescence all options had quite good results, application of fertilizers substantially increased the number of escapes of East Galena Officinalis L. on average on 19.5-21.4 pieces/sq.m, on option of 1999 of crops their maximum was received by 307 pieces/sq.m, grass productivity in 1999 of crops was much better, than in 1992. But both grasses had top yield of 4-6 cm, with costrets subsowing and increase in a mineral delivery of 11.7-12.1 t/ha. Photosynthetic potential during branching the most maximal in all studied options, but at budding it goes down almost on a half that is characteristic of long-term herbs. Results of the conducted researches allow to draw a conclusion on what type of reception of processing can be carried out in the conditions of the forest-steppe of Central Volga Area.

Bibliography

1. Vasin, A. V. Productivity mixtures during the spring and summer terms of seeding / A. V. Vasin, A. A. Bragin, V. G. Vasin // Grassland. – 2006. – №1. – P. 6-10.

2. Vasin, A. A. Cultivation of nontraditional perennial grasses and their mixtures in the conditions of the Samara region / A. A. Vasin, S. A. Golushkova // Advances in science agro-industrial complex : collection of scientific works. – Samara : PC SSAA. – 2013. – P. 170-174.

3. Drigeder, V. K. Organization of feed production for dairy complex / V. K. Drigeder, M. P. Zhukova, A. A. Kutsenko // Grassland. – 2013. – №3. – P. 45-47.

4. Dokukina, V. K. Using fodder galega crops for green fodder the later stages // Grassland. – 2011. – №8. – P. 17.

5. Kshnikatkina, A. N. Effect of a milk vetch east on soil fertility // Agriculture. – 2007. – №2. – P. 12-13.

6. Kshnikatkina, A. N. Efficiency polyspecific agrophytocenosis vetch east in the forest-steppe of the Middle Volga // Agriculture. – 2008. – №4. – P. 42-43.

7. Vagunin, D. A. Influence of the composition of mixtures with vetch east and the level of mineral nutrition on mineral nutrition efficiency on productivity agrophytocenosis / D. A. Vagunin, N. N. Ivanova, A. G. Kobzin, V. A. Tyulin // Advances in science and technology APK. – 2011. – №10. – P. 23-27.

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INFLUENCE OF FERTILIZERS CONSEQUENCES AND MELIORANTSON WINTER WHEAT IN THE CONDITIONS OF ASKERAN REGION

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Keywords: winter, wheat, predecessor, consequence, fertilizer, meliorant, yield.

The purpose of research is to identify the influence of the fertilizers aftereffect and ameliorator for yield formation and quality of winter wheat grain Bezostaya 1 after predecessor (potatoes) in the unirrigated soils of the Askeran region of NKR in 2011-2014. It should be noted that the winter wheat in the region is an advanced crop, but due to lack of irrigation water and the lack of rainfall is often collected by low yields. Research has established that the aftereffect of fertilizers and meliorants noticeable effect for growth, grain quality and yield formation, the amount of which depends from the application of the system of fertilizer. It is proved that more weak effect preserved when under a precursor have been made only mineral fertilizers ($N_{90}P_{90}K_{90}$), where as potassium fertilizer was used potash ($N_{90}P_{90}K_{90}$ option), and when on the same background was used gypsum or bentonite. If in the system $N_{90}P_{90}K_{90}$ fertilizer (KCl) instead of KCl was used treated dacitic tuff (OTD) or on the same MM backdrop bio-fertilizer, as well as an option manure 30 t/ha + $N_{90}P_{90}K_{90}$ (KCl), the consequence was significant. In these embodiments, the yield increase compared to control 1 (no fertilizer) was 30.2-57.2%, as compared to the control 2 ($N_{90}P_{90}K_{90}$ option (KCl) – 10.8-30.6%. In these embodiments, the content of NPK was high in the grain: 1.90-2.15% N; 0.93-0.97% P_2O_5 and 0.77-0.85% K_2O , whereas in the control 1 1.78% nitrogen, phosphorus – 0.69%, 0.53% potassium, and in control 2, accordingly – 1.80%, 0.81%, 0.65%.

Bibliography

1. Akopyan, G. G. Methodical guidelines for the cultivation of winter wheat in Artsakh / G. G. Akopyan, A. A. Ghulyan. – Stepanakert, 2007. – p. 32.

2. Alexanyan, V. A. Dynamics of soil moisture under winter wheat in a low-lying area of the NKR // News ASAU. – 2011. – №24. – P. 5-7.

3. Galstyan, M. A Cost-effectiveness of mineral and organic fertilizers on crop rotation of cereals and crops of ordinary crops // Information Technology and Management. – 2007. – №9. – P. 447-460.

4. Galstyan, S. B. Changing productivity and elements of winter wheat crop Bezostaya 1 depending on the sowing period and fertilizer / S. B. Galstyan, V. A. Aleksanyan // Agronauka. – 2013. – №9-10. – P. 500-503.

5. Yeritsyan, S. K. Influence of dacitic tuff on the growth and yield of winter wheat in different soil and climatic conditions of Armenia / S. K. Yeritsyan, M. M. Adzhamoglyan, L. S. Yeritsyan, Richard T. Kenik // News ASAU. – 2010. – №3. – P. 29-33.

6. Loboda, B. P. The use of natural fertilizers on the basis of free silica zeolites Khotyn field in agriculture / B. P. Loboda, V. M. Hodyrev. – M., 2010. – P. 12.

7. Merzlaya, G. E. Action and aftereffect of fertilizers systems using manure / G. E. Merzlaya, A. L. Eskov, S. I. Tarasov // Plodorodie. – 2011. – №3. – P. 16-19.

8. Petrychenko, V. N. Use silicone growth regulators / V. N. Petrychenko, S. V. Loginov // Potatoes and vegetables. – 2010. – №6. – P. 13-15.

9. Petrychenko, V. N. Apply silicone cucumber growth regulators / V. N. Petrychenko, S. V. Loginov // Potatoes and vegetables. – 2010. – №3. – P. 14.

10. Sargsyan, A. Fertilizers MM based on micro-organisms and mineral composites modified by the new technologies / A. Sargsyan, G. Sargsyan, R. Madoyan, R. Gevorgyan. – Education and science of Artsakh. – 2013. – №1-2. – P. 101-104.

VETERINARY MEDICINE AND ZOOTECHNICS

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DYNAMICS OF BLOOD PARAMETERS OF COWS IN THE CORRECTION OF ENDOMETRITIS

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Keywords: blood, endometritis, hemoglobin, leucocytes, neutrophils, calcium, phosphorus.

The aim of the study is improving the efficiency of cows acute postpartum endometritis treatment by use of the drug Metrolek-O. For the treatment of cows acute postpartum endometritis was used the drug Metrolek-O in the dose of 40, 50 and 60 ml with an interval of 48 hours, intrauterus. For the study of blood counts during the cows treatment of the studied groups, blood was taken before and after clinical diagnosis of healing. Blood was taken from 5 cows from each group of IP-using system «Monojet» from tail vein. It was found that sick animals reduced content in the blood: hemoglobin – 22.80 g/l; erythrocytes – $\times 10^{12}$ of 1.05 g/l; segment reflexology point pressure-nuclear neutrophils – was 4.02%; globulins – to 10.97% at simultaneous increase in quantity of leukocytes by $2,94 \times 10^9$ g/l and albumin – to 10.97%. When we use dose of the drug Metrolek-O – 50 ml morphological and biochemical blood parameters had large indicators that correspond to background. Drug Metrolek-O in the dose of 50 ml of the more effective as it provides normalization of the gradient of blood and recovery of animals by anti-inflammatory, antimicrobial, constant and regenerating properties, and increasing the dose to 60 ml ineffective because of the allergic properties of the drug, as evidenced by the increase of eosinophils 1.89%.

Bibliography

1. Bagmanov, M. A. Acute catarrhal-purulent endometritis of cows / M. A. Bagmanov, R. N. Savilov // Veterinary medicine of domestic animals : call. of sci. papers. – Kazan, 2010. – P. 58-61.
2. Baymishev, M. H. Enhancement of cow natural resistance by adaptogen. / M. H. Baymishev, H. B. Baymishev // Questions of normative-legal regulation in veterinary medicine. – 2014. – №3. – P. 17-20.
3. Vorobyov, A. V. Morphological and biochemical indicators of cows blood after calving is influenced by the immune system // Proceedings of the Orenburg state agricultural university. – 2010. – №28, vol. 4. – P. 216-218.
4. Grishina, D. Y. Morphological cows blood indices with normal and pathology-related postpartum period / D. Y. Grishina, L. A. Minuk // Bulletin Samara SAA. – 2015. – Vol. 1. – P. 20-23.
5. Erin, D. A. Morphological and biochemical changes in the blood during the treatment of acute post labor endometritis / D. A. Yerin, S. V. Chuprin, V. I. Mikhalev, Y. Mashanov // Husbandry. – 2011. – №3. – P. 23.
6. Zemlyankin, V. V. Morphobiochemical and immunological parameters of cows blood with hypofunction of ovaries during background of latent endometritis // Bulletin Samara SAA. – 2012. – Vol. 1. – P. 10-12.
7. Minuk, L. A. The drug «Amiksin» use in the treatment of indometritom cows. / L. A. Minuk, A. V. Nechaev // Bulletin Samara SAA. – 2011. – Vol. 1. – P. 62-64.

SORBENTS AND PROBIOTICS IN FEEDING OF WEANLING PIGLETS

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Keywords: weanling piglets, probiotic, sorbent, weight, weight growth.

The purpose of research is increase in economically useful qualities of piglets weaned with co-feeding of the sorbent Kovelos-Sorb and probiotic Sporotermin. Weanling piglets produced in 2 months of age. Duration of the experiment was 60 days, on reaching the age of 120 days. The first control group received a basic diet, the second experimental group – the basic diet and probiotic Sporotermin in the amount of 0.1% by weight of the feed, the third experimental group – the basic diet and sorbent Kovelos-Sorb in the amount of 0.1% by weight of the feed, the fourth test group – the basic diet, Sporotermin 0.1 by weight of the feed and Kovelos-Sorb 0.1% by weight of the feed. The studies found that the body weight of piglets at the age of 120 days in the second, third and fourth groups were higher by 4.1; 6.6 and 10.9%, respectively, relative to the first live weight of pigs group. It has also been found to increase average daily gain of 7.1; 11.7 and 19.4%, respectively, relative growth of the first group of piglets. Feed costs decreased by 3.7-16.3% in the experimental group, fed by the sorbent and the probiotic and probiotic sorbent together. With increasing body weight, the increase and feed decrease, there was an increase of beef entering the 0.4-1.6% relative to slaughter pigs release of the first group. Based on these data, we recommend the combined using of probiotic Sporodermin and sorbent Kovelos-Sorb, respectively, in the amount of 0.1% by weight of the feed for piglets-weaned at 2 months of age.

Bibliography

1. Antipov, V. A. Prospects of application natural the aluminosilikat minerals in veterinary science / V. A. Antipov, M. P. Semenenko, A. S. Fontanetsky, L. A. Matyushevsky // *Veterinary science*. – 2007. – №8. – P. 54-57.
2. Shevtsova, A. A. An assessment of efficiency of feed additive use on the basis of zeolite in animal husbandry / A. A. Shevtsova, E. S. Shevtsov, E. A. Ostrikov, N. V. Shatunov // *Forage production*. – 2013. – №9. – P. 38-39.
3. Sidorova, A. V. The Khakass bentonites in diets of broilers / A. V. Sidorova, L. N. Ekkert // *Poultry farming*. – 2013. – №08. – P. 14-16.
4. Gamko, L. N. Influence of natural mineral additive for efficiency of cattle at the same feeding / L. M. Gamko, O. C. Kust // *Agrarian science*. – 2014. – №3. – P. 19-20.
5. Pyshmantseva, N. A. The probiotics increases profitability of poultry farming / N. A. Pyshmantseva, N. P. Kovekhov, V. A. Savosko // *Poultry farming*. – 2011. – №2. – P. 36-38.
6. Lukashenko, V. S. Improvement of broilers meat quality by means of probiotics / V. S. Lukashenko, M. A. Lysenko, V. V. Dychakovskaya, V. V. Slepukhov // *Poultry farming*. – 2011. – №9. – P. 57-58.
7. Luchkin, K. Y. Influence of the pro-biotic preparation «Biovestin-lakto» separately and in a complex with a sorbent for efficiency of young growth of pigs : abstr. of diss. ... cand. of agricultural sci. : 06.02.08 / Luchkin Konstantin Urevich. – Barnaul, 2014. – 23 p.
8. Trading System [Electronic resource]. – URL: <http://www.agroru.com/doska/sporotermin-95259.htm> (reference date: 24/05/2013).
9. Russian agrosolver [Electronic resource]. – URL: <http://www.agrosolver.ru/b/kovelos-sorb-dlya-neytralizatsii-toksinov-i-uluchsheniya-pokazate-333110.htm> (reference date: 24/05/2013).

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THE EFFICIENCY OF UTILIZATION OF NUTRIENTS AND ENERGY OF BLACK-MOTLEY BREED BULL-CALVES DIETS WITH THE USE OF FEED ADDITIVES BIODARIN

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Key words: calves, digestibility, nutrients, energy, diets.

The purpose of the research is improving the efficiency of energy utilization of diets for Black-motley breed bull-calves through the use of probiotic drug Biogaran. The experiment was conducted in SPK-collective farm «Heroi» Chekmagushevsky district in the Republic of Bashkortostan. Group formation was carried out according to the principle of analogues taking into account breed, sex, age and body weight. 4 groups were formed of 6-month-old bull-calves of Black-motley breed and control (I) and 3 experimental (II, III and IV) for 15 heads each. In the diets of young II, III and IV groups in addition to the basic diet were injected with 3.5 g; 7.0 and 10.0 g of probiotic feed additive Biodarin per 1 kg of concentrated feed. Animals treated with the drug at a dose of 7.0 g/kg of concentrated feed, in comparison with their peers of the control group better digested dry matter by 1,64% (P<0.01), organic – 1,25% (P<0.05), crude protein – 2.97% (P<0.05), crude fiber – 1,53% (P<0.05) and BEV – 2.64% (P<0.05). Using in feed rations of large horned livestock young growth feed additive «Biodarin» has positive effect for energy metabolism: energy interchanging increased by 1.02-1.79 per cent, the energy gain is increased by 10.96-of 19.72%.

Bibliography

1. Mironenko, S. I. Meat qualities of Black – motley cattle and its hybrids / S. I. Mironenko, V. I. Kosilov // Herald of the Russian Academy of agricultural Sciences. – 2010. – №2. – P. 68-69.
2. Bogolyubov, N. In. The processes of digestion and digestibility of nutrients from fatten steers when using synthetic nitrogen-containing compounds with zeolites / N. In. Bogolyubov, V. E. Dolgosheva // Bulletin Samara SAA. – 2015. – №1. – P. 81-85.
3. Vagapov, F. F. Qualitative indicators of meat productivity of young animals when fed feed additives / F. F. Vagapov, R. S. Yusupov // Bulletin Samara SAA. – 2015. – №1. – P. 125-127.
4. Mironova, I. V. Cows digestibility of the main nutrients of Black-motley breed cows diets at use in feeding probiotic Supplement Vetosporin-active / I. V. Mironova, V. I. Kosilov // Proceedings of the Orenburg SAU. – 2015. – № (2) 52. – P. 143-146.
5. Chernenkov, E. N. Dynamics of changes in meat productivity of rabbits at use in the diet of probiotic supplements biochemical / E. N. Chernenkov, A. J. Gizatov // Bulletin Samara SAA. – 2014. – №1. – P. 128-131.
6. Semerikova, A. I. The growth and development of Simmental breed calves at introduction in diet with probiotic supplements «Vetosporin-suspension» / A. I. Semerikova, I. V. Mironova // Bulletin Samara SAA. – 2013. – №1. – P. 85-89.
7. Valitova, A. A. Improving the quality of milk of cows of black-motley breed through the use of probiotic supplements «Vetosporin-Aktiv» / A. A. Valitova, I. V. Mironova, I. M. Faizullin // Bulletin Samara SAA. – 2014. – №1. – P. 82-85.
8. Gizatova, N. V. The dynamics of growth and development of heifers of Kazakh white breed with use in feed rations feed additives Biodarin // proceedings of the Samara state agricultural Academy. – 2016. – №1. – P. 27-29.
9. Kosilov, V. I. Efficiency of nutrient utilisation of the diets of calves of Black-motley breed and its two-, three-pedigree hybrids / V. I. Kosilov, I. V. Mironova, A. V. Kharlamov // Proceedings of the Orenburg SAU. – 2015. – № (2) 52. – P. 125-128.
10. Kosilov, V. I. nutrient Intake and nitrogen balance in cows of black-motley breed with the introduction in their diet probiotic preparation «Vetosporin-active» / V. I. Kosilov, I. V. Mironova // Proceedings of the Orenburg SAU. – 2015. – № (3) 53. – P. 122-124.

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HEMATOLOGICAL PARAMETERS PUREBRED AND CROSSBRED CALVES

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Keywords: bulls, castrates, hybrids, hematology.

The purpose of research is scientifically and practically prove the possibility of increasing the level of meat productivity purebred for young calves at the crossing of Black-motley cows with bulls of the breed Obrac. Research objects are the bulls of Black-motley breed and their hybrids I generation with Obrac breed. For the experience 4 groups of animals were formed: I and III – Black and white breed, II and IV – gobies Obrac crossbreeds ½ x ½ black-and-white. Bulls of groups III and IV in the 2 months of age were castrated by open way. All experimental

animals identical conditions of detention and feed have been established. To monitor the physiological state of an organism of young animals in the winter and in the blood of the summer, blood was taken from the jugular vein before feeding and watering, measured hemoglobin, alkaline reserve, the number of white blood cells, red blood cells, serum – total protein, protein fractions, calcium, phosphorus, , the activity of AST and ALT. Deviations from the physiological norm morphological parameters of blood in the experimental groups of calves during the experiment was not set. Total protein content in serum was higher in summer compared to winter. Increasing the total protein content have purebred calves was 4.1 g/l (5.3%), crossbred steers 3.3 g/l (4.2%), respectively castrates at 4.2 g/l (5.6%) and 4.9 g/l (6.5%). There is a trend increase of enzyme activity in the summer, due to a more active course of metabolism in the body during this season of the year. Purebred and crossbred young are characterized by high adaptive plasticity, as evidenced by morphological and biochemical indices of blood. All quantitative and qualitative changes in the blood were largely seasonal in nature and due to the influence of environmental conditions. Thus all interior change indicators do not go beyond the limits of the physiological norm.

Bibliography

1. Giniyatullin, Sh. Growth and Development purebred heifers and Holstein Black-motley breed / Sh. Giniyatullin, H. Tahirov // Dairy and beef cattle. – 2011. – №3. – P. 21-23.
2. Ibatova, G. G. The amino acid composition and technological characteristics of meat of bull-calves of Black-motley breed at use of growth promoters «Nucleopeptide» // Fundamental and applied problems of increasing animal productivity and competitive industry of livestock products in the current economic conditions of the APC. – Ulyanovsk : Ulyanovsk SAA P. A. Stolypin, 2015. – P. 135-137.
3. Ibatova, G. G. Changing the body measurements of young Black-motley breed grown using stimulant «Nucleopeptide» / G. G. Ibatova, E. S. Semyanova // Mat. III Anniversary All-Russian sci.-pract. conf. – 2014. – №1 (84). – P. 74-77.
4. Tagirov, H. Influence Holstein for meat efficiency of young crossbred / H. Tagirov, Sh. Giniyatullin, D. Yakupov // Dairy and beef cattle. – 2008. – №2. – P. 9-11.
5. Tagirov, H. H. Features of growth and development of calves Black-motley breed when fed a probiotic feed additive «Biogumitel» / H. H. Tagirov, F. F. Vagapov // Bulletin Orenburg SAU. – 2012. – №6 (38). – P. 123-126.
6. Tagirov, H. H. Environmental safety of beef when the additive «Biogumitel» in the diet of young cattle / H. H. Tagirov, F. F. Vagapov, G. G. Ibatova // Proceedings of the All-Russian Youth Scientific School under the federal target program. – Ufa, 2012. – P. 173-175.
7. Tagirov, H. H. Advanced technologies of production of meat products / H. H. Tagirov, L. A. Zubairova, A. R. Salikhov // Mechanization and electrification of agriculture. – 2010. – №3. – P. 26-27.
8. Tagirov, H. H. The quality of meat calves of different genotypes and physiological state / H. H. Tagirov, R. S. Yusupov // Milk and beef cattle. – 2003. – №4. – P. 5-9.
9. Tagirov, H. H. Meat efficiency of bull-calves at feeding them pro-biotic feed additive «Biogumitel» / H. H. Tagirov, R. S. Yusupov, F. F. Vagapov // Bulletin Samara SAA. – 2013. – №1. – P. 60-64.
10. Yusupov, R. Effect of probiotic feed additive «Biogumitel» for fattening steers quality / R. Yusupov, H. Tagirov, F. Vagapov // Dairy and beef cattle. – 2012. – №7. – P. 11-13.

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MEAT PRODUCTIVITY OF PIGS DEPENDING ON CATTLE MANAGEMENT

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Keywords: meat, slaughter, zoohygiene, weight, hulk, slaughteral, market weight.

The purpose of the study is to identify the best pigs hygienic conditions through the effective functioning of the systems provide controlled microclimate in the buildings. Comparative evaluation of fattening and meat qualities of pigs depending on hygienic conditions of detention were held in Meleuz (group 1), Belebeevsky (group 2) and Ilichesky (group 3) pig farms of LLC «Bashkir bacon». To conduct research in these enterprises on the principle of

analogues with regard to origin, age and live weight were formed the experimental group of weaned piglets of Large white breed 25 heads. The studies were conducted at identical feed the background with the use of full-feed in a stack according to the age and breeding programs. In all groups feed was used the same batch of manufacture. The feed consumption was determined according to the group based on the actual amount of feed consumed during the period of fattening. Studies have shown that zoo-hygienic conditions of breeding and fattening to a certain extent, affect not only the intensity of increase in live weight, but also on fattening and meat quality of pigs. It was found that the identified zoohygienic parameters do not have a significant negative impact for the hygienic characteristics of raw meat. The results of author's research as well as recommendations developed on the basis of the conducted research, adopted for implementation in the units of LLC «Bashkir bacon». The data below show that the index of massiveness that reflect the main feature of the habitus, in pigs of group I was higher than in group II at 2.0% and III – by 3.7%.

Bibliography

1. Dolzhenkova, G. M. Influence of parameters of microclimate for the growth, fattening and meat qualities of pigs / M. G. Dolzhenkova, R. S. Gizatullin, I. N. Tokarev // Advances in science and technology AIC. – 2009. – №8. – P. 57-59.
2. Dolzhenkova, G. M. the Effect of structure and nutritional quality of diet for growth rate and hygienic safety indicators of pork / M. G. Dolzhenkova, R. S. Gizatullin // Integration of agricultural science and production: current status, problems and solutions : mat. the all-Russian sci.-pract. conf. – Ufa, 2008. – P. I. – P. 220-22.
3. Dolzhenkova, G. M. the Growth and development of pigs depending on hygienic conditions / M. G. Dolzhenkova, Galieva A. Z. // Bulletin Samara SAA. – 2015. – №1. – P. 141-144.
4. Galiyeva, Z. A. Meat industry / A. Z. Galieva, L. A. Zubairov // Managing system of agricultural production in the Republic of Bashkortostan. – Ufa, 2012. – P. 390-392.
5. Galieva, A. Z. Environmentally safe preservatives in meat products / A. Z. Galieva, E. G. Gainullina // Prospects of innovative development of agribusiness : mat. International sci.-pract. conf. – 2014. – P. 15-18.
6. Galiyeva, Z. A. Preservative effect of propolis for meat and meat products // EU – Russia: the 7th framework programme in biotechnology, agriculture, forestry, fisheries and food. – 2010. – P. 84-85.
7. Galiyeva, Z. A. Meat breed pigs / Z. A. Galiyeva, O. O. Gryaznova // Student and agricultural science. – Ufa : BSAU, 2011. – P. 167-168.
8. Galieva, Z. A. the Conversion of nutrients and energy of the feed into nutrients and energy meat / Z. A. Galieva, E. G. Gainullina // Chemistry in agriculture. – Ufa, 2014. – P. 36-38.

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TRANSFORMATION OF PROTEIN AND ENERGY FOOD IN PROTEIN, AND ENERGY OF THE BODY PUREBRED AND CROSSBRED BULLS

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Keywords: bulls, hybrids, conversion, protein, Black-and-white, Aberdeen-Angus, Limousin.

The purpose of research is comparative evaluation of meat efficiency Black and Motley bull-calves breed and its hybrids with Aberdeen Angus and Limousines. Scientific and economic experience I was held in SEC by Kirov Dyurtyulinsky District Republic of Bashkortostan. For the research it was formed 3 groups of 15 steers heads each. Group I was consisted of purebred bull calves of Black-motley breed in II – the Half-Blood crossbred Aberdeen Angus x Black-and-white, in the III – the Half-Blood crossbred bulls Limo's Black-and-white. Bulls to 6 months of age were grown by hand-watering of milk, and then they were in the feedlot. To study the meat quality assessment and steers by effectively feed conversion in essential nutrients meat products held con-controlling slaughter 3 animals in each group according to the experimental scheme of 15 and 18 months. The results of the slaughter of calves suggest that age increases the mass of the carcass, the internal fat of raw and slaughter yield of animals of all groups. Increased steam carcass weight at 18 months of age compared to 15 months in animals in group I was 43.1 kg (20.2%), II – 46.7 kg (20.4%) and Group III – 55.0 kg (23.5%). At the same time supply growth rate carcasses crossbred bulls II and III groups were superior to purebred steers to 18.2 kg (7.1%) and 32.0 kg (12.5%). At 15 months of age protein conversion rate ranged from 7.46 to 7.95%, energy – from 3.62 to 3.93% in 18 months – respectively, from 7.32 to 7.86%, and 4.17 to 4.64%. At the same time the best trans-formation of the protein in the

meat products had cigarette butts all groups in the 15 months of age. Crossbred young groups II and III of this indicator exceeded peer group I in 15 months at 0.49 and 0.38%.

Bibliography

1. Gubaidullin, N. Productive qualities of purebred and crossbred steers / N. Gubaidullin, H. Tagirov, R. Ishakov // Dairy and beef cattle. – 2011. – №1. – P. 25-26.
2. Ibatova, G. G. Influence of biologically active substances consumption and energy use in feed calves Black-motley breed // The state and prospects of increased production of high quality agricultural products. – Ufa : Bashkir SAU, 2015. – P. 45-47.
3. Ibatova, G. G. Biochemical parameters of blood grown steers / G. G. Ibatova, F. F. Vagapov // The achievements of chemistry in the agricultural sector. – Ufa : Bashkir SAU, 2015. – P. 96-100.
4. Ibatova, G. G. Economic-biological quality of Black-motley breed calves grown with the use of the drug «Nukleopeptid» / G. G. Ibatova, H. H. Tagirov // Modern trends of innovative development of veterinary medicine, animal science and biology. – Ufa : Bashkir SAU, 2015. – P. 246-249.
5. Mamaev, I. I. Growth, development and hematology Black and Montley breed steers and its double, three-pedigree hybrids / I. I. Mamaev, H. H. Tagirov, R. S. Yusupov, I. V. Mironova // Dairy and beef cattle. – 2014. – №2. – P. 2-4.
6. Masalimov, I. A. Hematological parameters of Bestuzhevskay breed and its hybrids with the breed Salers and Aubrac / I. A. Masalimov, I. V. Mironova, H. H. Tagirov // Bulletin Samara SAA. – 2012. – №1. – P.130-134.
7. Tagirov, H. Holstein influence for meat productivity of pedigree / H. Tagirov, Sh. Giniyatullin, D. Yakupov // Dairy and beef cattle. – 2008. – №2. – P. 9-11.
8. Tagirov, H. H. Interior features of purebred and crossbred calves / H. H. Tagirov, R. S. Iskhakov // Prospects and advances in the production and processing of agricultural products. – Stavropol : AGRUS, 2015. – P. 136-141.
9. Tagirov, H. H. Bioconversion of nutrients and food energy in the edible parts of the body and gobies castrates different genotypes / H. H. Tagirov, I. V. Mironova, L. A. Gilmiyarov // Bulletin of the Orenburg SAU. – 2011. – №30-1. – P. 108-111.
10. Yusupov, R. Influence of Holstein productivity of cows and environmentally friendly products / R. Yusupov, H. Tagirov, E. Andrianova // Dairy and beef cattle. – 2008. – №6. – P. 19-20.

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DAIRY CATTLE BREEDING STOCK CONDITION IN REPUBLIC OF BASHKORTOSTAN

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Keywords: cattle breeding, productivity, Holstein, Black-and-white, Simmental, Bestuzhev, breed.

The main goal of the research is increasing the productivity of the breeding stock and bulls for herd reproduction. Evaluation of dairy cattle building was carried out on the basis of the appraisal for 2012-2014, statistical compilations, data certification and reproduction departments and intensification of animal MOA Belarus, JSC «Bashkir» in breeding, GUSP «Bashplemservis» PG SLC «Ufa», according to the records, according to the farms of the republic. The studies found that the proportion of breeding cattle in the Republic of Bashkortostan of the total number of cows is 18% of the productivity level for the black-motley breed of 5696 kg, Holstein – 6630 kg Simmental – 4834-4716 kg and Bestuzhev. Under these circumstances, production of milk is one of the main objectives and preserve and improve the productive qualities of Simmental and Bestuzhev cattle as the most adapted to the climatic and forage conditions of the region through within-breeding and cross-breeding Simmental cattle with red motley Holstein, Bestuzhev – with Angler and red Danish rock. Available in the national reserve of bulls steer Bank in general is characterized by high productivity potential of female ancestors, which only 60-70% is realized in the current conditions of commodity production. Bulls fathers steer used in GUSP «Bashplemservis» are absolute improvers, and used in more than 50 countries.

Bibliography

1. Vinogradov, V. N. Reproduction of cattle more efficient country security system / V. N. Vinogradova [et al.]. – Dubrovnik : VNIJ, 2010. – 117 p.
2. Nemtsov, A. This method of breeding genetically cattle horse dairy V. I. / A. A. Nemtsov, I. A. Akhatova. – Ufa : Gilem, 2009. – 264 p.
3. Baibulatov, I. A. Evaluation of tribal agriculture is alive to heal summary of the Republic in the next year the emblem has for 2014 / I. A. Baibulatov [et al.]. – Ufa : Mir pechati, 2015. – 67 p.
4. Popov, N. A. Methodical instructions for the selection of bulls of black-motley breed to increase the level of milk production and milk quality of cows / N. A. Popov, A. N. Popov, L. K. Marzanova, V. Yu. Sidorova. – Dubrovitsy : GNU Vii Rossel'hoz'akademii, 2013. – 72 p.
5. The foundations of modern dairy production : a practical guide / ed. by F. S. Haziakhmetov. – Ufa : Bashkir SAU, 2014. – 70 p.
6. Dunin, I. M. program for the improvement of Bestuzhev cattle breed using pedigree resources / I. M. Dunin [et al.]. – Forest valleys : FSB GSIIbreed, 2011.. – 35 p.
7. Dunin, I. M. Recommendations for the stabilization of the cattle population and improve the rehabilitation of production flocks in the farms of the Russian Federation / I. M. Dunin [et al.]. – Forest clearing : FSB GSIIbreed 2011. – P 4-16.
8. Sahautdinov I. Allele of blood group and its relationship with dairy yield of Simmental cows / I. Sahautdinov, L. Muratova, S. Islamova, U. Gumerov // Dairy and beef cattle. – 2011. – №5. – P. 7-9.
9. The system of machinery and equipment for the implementation of innovative technologies in crop production and animal husbandry of Republic of Bashkortostan under the General editorship / ed. by I. I. Gabitova, S. G. Mudarisova, G. P. Ukhina, V. G. Samosuka. – Ufa : publishing house of Bashkir SAU, 2014. – P. 121-133.
10. Salakhov, F. D. Exterior characteristics of cows of imported and domestic breeding / F. D. Salakhov, S. G. Islamov // Bulletin of Bashkir SAU. – 2015. – №3 (35). – P. 33-35.
11. Sedyh, T. A. Assessing allele of cattle breed in the Ural steppe zone of Bashkortostan / T. A. Sedyh, I. Y. Dolmatov // Science: theory and practice – 2014. – 2014. – Vol. 6. – P. 60-66.

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THE EFFECT OF THE HEIGHT AT THE RUMP ON A LIVE WEIGHT AND AVERAGE DAILY GAINS OF CALVES OF HERFORD BREED

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Key words: cattle, measurements, weight, gain, correlation, regression.

The purpose of the study – improvement of breeding and productive qualities of Hereford cattle by insemination bulls from the Canadian selection. It is established that in young Hereford beef cattle between live weight and height at the sacrum and between the height at the sacrum and average daily gains there are mainly medium and high positive correlation (from 0.35 to 0.73). Regression analysis has shown that the change in height in the sacrum on 1 cm, causes the increase of live weight of animals from 1.55 kg in animals of different lines and productivity gain of calves from 7.67 g to amounted to 23.87g. The highest coefficient of the time average correlation coefficient of between the height at sacrum and live weight set in the group of heifers, obtained a bull from the absolute 49S, and the highest co-factor regression between these two traits in heifers obtained from a bull of a Wide Load 391W. The same trend holds when comparing groups correlation coefficient and regression between the height at the sacrum and average daily gain. It is noted that calves of all groups are well adapted to local conditions, and have high gain.

Bibliography

1. Amerhanov, H. A. Order and conditions of carrying out of appraisal please of cattle beef productivity / H. A. Amerkhanov, I. M. Dunin, V. I. Shuffling [et al.]. – M. : FSSI «Rosengarten», 2011. – P. 52

2. Gizatullin, R. S. Beef Production in the Republic of Bashkortostan: status and prospects / R. S. Gizatullin, V. A. Sedykh // Prospects of innovative development of agribusiness : mat. International sci.-pact. conf. – Ufa, 2014. Vol. I. – P. 284-288.
3. Japaridze, T. G. Without extraordinary measures in beef cattle we can't do // Development of animal husbandry. – 2009. – №1(2). – P. 18-21.
4. Dzhulamanov, K. M. Methods of evaluation of bulls of beef breeds / K. M. Dzhulamanov, M. P. Dubovskova, N. P. Gerasimov [et al.] // Bulletin of beef cattle. – 2010. – Vol. 63(2). – P. 12-19.
5. Dzhulamanov, K. M. Tribal resources Gereford cattle / K. M. Dzhulamanov, M. P. Dubovskova // Bulletin of beef cattle. – 2012. – Vol. 3(77). – P. 21-26.
6. Dzhulamanov, K. M. Breeding and genetic evaluation of breeding qualities of breeding stock of Hereford breed of different genotypes / K. M. Dzhulamanov, N. P. Gerasimov // Bulletin of beef cattle. – 2012. – Vol. 4(78). – P. 37-41
7. Frolov, A. N. Weight growth of young cattle Hereford breeding of imported and local population in the area of the southern Urals / A. N. Frolov, M. A. Kitaev, I. V. Erzikov, V. G. Litovchenko // Bulletin of beef cattle. – 2013. – Vol. 3(81). – P. 65-68.
8. Hakimov, I. N. Use selection genetic parameters in the breeding of beef cattle / I. N. Hakimov, R. M. Mudarisov // European conference on innovations in technical and natural sciences. – Vienna, 2014. – P. 181-184.
9. Hakimov, I. N. Improving productive tribal of the quality of Hereford cattle in the Samara region / I. N. Hakimov, R. M. Mudarisov // Bulletin Bashkir SAU. – 2014. – №1 (29). – P. 56-58.