

**V.N. Tishchenko.** Variability of quantitative traits and indexes at winter wheat lines is investigated with grouping by linear ear density index (LED) // News of Poltava State Agrarian Academy. – 2007. – №1. – P.5-10.

It is established, that the level of quantitative traits of ear productivity at max lines by grouping on LED was constant above in relation to min lines, not depending on year conditions and sowing time. Under the quantitative traits analysis of vegetative part of plant at winter wheat lines, in grouping by LED, the conclusion about practical use of some of them is made, in particular top internodes length, in the technology of selection process and in breeding. It shown, that under limiting environment conditions the selections of most productive genotypes can be carried out, using the top internodes length index. At early or late sowing time genotypes with min top internodes length, will form more of grains with increased: grain weight from ear and weight of ear with seeds. Two groups of selection indexes by max LED were made.

**A.P. Bilityuk, N.V. Pysarenko.** Influence of norms sowing, mineral fertilizer on growth and development of plants, productivity and quality of a grain triticale winter // News of Poltava State Agrarian Academy. – 2007. – №1. – P. 11-18.

The role of norms sowing, mineral fertilizer in management of growth, development and formation of elements of structure of a crop triticale is investigated. Is established, that the greatest gain of a grain field of this culture with improvement of (its) quality on good black soil (after one-years(one-summer) grass on a green forage provides Western Polissya of Ukraine) crop 3 and 5men. Pieces seed and entering N90H90R90 on hectare.

**A.Ph. Balabak, I.M. Rekun.** The reproduction of the seed propagation of Japanese quince in rightbank of woodstep Ukraine // News of Poltava State Agrarian Academy. – 2007. – №1. – P.19-24.

The integrated evaluation of seed propagation of eight varieties of Japanese quince is given, the influence of exogenous and endogenous factors on seed germination. Agrotechnical measures of the seed propagation of Japanese quince are improved according to the substratum type and temperature conditions of stratification environment.

**H.P. Zhemela, O.V. Barabolya.** Productivity and quality of a grain spring firm wheat in depending on norms sow // News of Poltava State Agrarian Academy. – 2007. – №1. – P. 25-29.

The influence of norms sow is considered depending on doses of fertilizer and predecessors on productivity, weight 1000 grains, nature, glassing, contents of fiber and sticky in a grain springwheat firm and are established, under what conditions the large productivity is formed and the quality of a grain is improved.

**N.Ya. Shevnikov.** Competitiveness of crops say to weeds // News of Poltava State Agrarian Academy. – 2007. – №1. – P.30-32.

The results of researches directed on increase to competitiveness say in relation to weeds are submitted. The formulas for account of factors of competitiveness and sowing are submitted. The rational spatial structure of crop raises competitiveness of crops say in relation to weeds. Are expedient sowing crops soyas with widely 45 sm.

**V.V. Buydin, V.U. Hor, S.B. Pospelov, V.N. Samorodov.** Features of action of extracts of different bodies Echinacea purpurea (L.) Moench purple urea on growth koleoptilov of barley // News of Poltava State Agrarian Academy. – 2007. – №1. – P.33-39.

The biological activity of extracts rootings with roots, jeafs and buttons Echinacea pupurea (Echinacea purpurea (L.) Moench) method of biotesting on growinq of barley was studied. Is estab-

lished, that by greatest she was at jeats. The best conditions for testing are created at previous seed in water at one hour or at direct testing seed in extracts Echinacea. In all variants of experience in 72-84 hours from time it is observed essential stimulation of growth koleoptilov of barley.

**J.V. Beljavskij, R.O. Vusatyj, O.J. Matveeva.** Efficacy of different systems of chemical protection of a winter wheat // News of Poltava State Agrarian Academy. – 2007. – №1. – P.40-42.

The results of researches on study of action modern pestitsidov on a complex harmful organzims in crops of a winter wheat are displayed. The efficiency of different systems of chemical protection of plants of a winter wheat with use of preparations of the updated assortment is certain(determined).

**N.M. Prytula, I.A. Panchenco, V.V. Luchnoy, O.M. Kasyanenko.** Correlation communications between quantitative attributes winter soft and firm soft and their hybrids // News of Poltava State Agrarian Academy. – 2007. – №1. – P.43-50.

The features of correlation communications between attributes of efficiency of an ear and architectonik of plants at the parental forms winter firm and soft weat and kinds of hybrids of the fifth generation and opportunity of use of these forms, given at selections, steady to lie with the raised(increased) efficiency of an ear are investigated.

**V.U. Krykuynov, L.A. Kolesnikova.** The characteristic of an ecological condition soil for the contents of heavy metals which are giving in technoqen to influence // News of Poltava State Agrarian Academy. – 2007. – №1. – P.51-56.

The comparative characteristic is submitted for the contents of heavy metals in soils agricultural land, which test technoqen loading. The background meaning (importance) TM for concrete region of the Poltava area is established.

**A.O. Pavljuk.** Optimization of structure of crops of hybrids of corn for a zone of unsufficient humidifying left bank of Ukraine // News of Poltava State Agrarian Academy. – 2007. – №1. – P.57-60.

Realizations of field experiment has enabled to find out natural potential of resources and agroecological of conditions for hybrids of corn of different groups of maturity. The optimum structure of crops of corn for a zone of unsufficient humidifying left Bank of Ukraine is established.

**L.V. Malinka, O.P. Lukyanets, A.G. Pasyuta.** Energy efficiency of the substitution of legumes in legume-grass mixtures // News of Poltava State Agrarian Academy. – 2007. – №1. – P.61-63.

The results of the energy efficiency of the substitution of legumes in legume-grass mixtures are adduced. The positive effect of the substitution of legumes for the years of use is obtained.

**V.A. Bondarenko.** The influence of out-root additional application of magnesium and microelements on the crop capacity of variety of apple-trees Golden Delicious on the root-stock M9 in the conditions of Forest-Steppe of Ukraine // News of Poltava State Agrarian Academy. – 2007. – №1. – P.64-65.

The results of influence of out-root additional application of magnesium and microelements on the productivity of the apple-trees, a drought-resistance of their, the area of leaf surface and content in leaves of photosynthesis pigments.

**S.K. Sheshenya, H.M. Rybak, N.O. Byevyvc.** Influence of the natural additives on contents of vitamin c in compotes from berries of a raspberry and wild strawberry // News of Poltava State Agrarian Academy. – 2007. – №1. – P.66-68.

It was found out that canned compote made of raspberries with added bilberry juice and aronia juice, as well as canned compote made of wild strawberries with added elderberry juice after six months of being preserved had higher content of vitamin C than

canned compote without additives.

**G.V. Khomenko.** The activity of nitrogen fixation and nitrogen-fixing bacterias in root zone of *Valeriana officinalis* L. // News of Poltava State Agrarian Academy. – 2007. – №1. – P.69-72.

The nitrogen activity and the composition of nitrogen-fixing bacterias in root zone of *Valeriana officinalis* L. was studied. It is established that the associative system “diazotrophs-*Valeriana officinalis* L.” belongs to endorhizospherical types. It is shown that in this zone is observed increase of nitrogen fixation and appear promoting conditions for development different systematical and ecotropical groups of diazotrophic microbes. From the root zone of *Valeriana*’s is allocated 28 of shtamms nitrogen-fixing bacterias, which belongs to a genus *Azotobacter*, *Flavobacterium* and *Pseudomonas*.

**P.H. Sokyrko, H.A. Udovychenko.** The stepnyansky „Scorpion” on filds of Poltava // News of Poltava State Agrarian Academy. – 2007. – №1. – P.73-74.

Use of technologies which are based on cultivation of the ground, is determined by the combined units „Scorpion” that, allows to lower the cost price of production to raise (increase) a level of profitability due to decrease (reduction) of power expenses.

**I.S. Tronchuk.** Ekstrudaty of a grain leguminous – basic albumen a forage for pigs // News of Poltava State Agrarian Academy. – 2007. – №1. – P.79-83.

Green-beaver crops of culture (peas, soya, the fodder beans, fodder lupin) as ekstrudaty can be basic white food by a forage for pigs. The inclusion them in structure of diets in quantity(amount) till 20-24 of % on nutritiousness allows to receive alive weight of pigs in bi-monthly age of 18-21 kg, daily average of pigs in the age of from 2 about 4 months – 400-430 q and at meat anforage – 540-834. The charge of forages on 1 kg of a gain, accordingly, is at a level 1,4-2,46; 3,78-5,24 and 3,25-5,5 c.ed.

**I.G. Babarika.** Influence of changes in some technological processes on pig raising efficiency // News of Poltava State Agrarian Academy. – 2007. – №1. – P.84-86.

The results of the researches dealing with the effect of changes in feeding from birth till the end of fattening period as well as terms of piglets weaning on efficiency of pigs rising are discussed.

**S.O. Semenov, O.O. Vyslanko, F.S. Marchenkov.** Feed acidifiers – effective preparations for increasing young pig productivity // News of Poltava State Agrarian Academy. – 2007. – №1. – P.87-90.

Comparative study of effectiveness of feed acidifiers (fumaric acid, adipinic acid, bioacide acidifier) in a young pig's ratio has been conducted.

**U.A. Harnazhenko.** Biological value of meat of chickens broilerov at use of diets enriched by forages from wastes of processing of mussels // News of Poltava State Agrarian Academy. – 2007. – №1. – P.91-92.

In condition of the market relations poultry farming enterprise necessary produce qualitative, competitive products. This possible way of the full-fledged nursing of the bird with the help of untraditional provender. Under feeding chicken broiler provender from departure of the conversion mussel is saved biological meat value.

**M.D. Kolesnik, S.O. Semenov, I.B. Bankovska.** Peculiarities of chemical composition of mariana // News of Poltava State Agrarian Academy. – 2007. – №1. – P.93-95.

Results of analyses made to determine the chemical composition of mariana (*Silybum marianum*) and using it as an ingredient of mixed feed for a suckling piglet are presented. Systemic influence on increase an livestock population preseverance,

productivity and economic expedrency has been determined.

**V.M. Hahayevych, H.N. Hrebenyk, N.D. Holub.** An estimation on a genotype of pigs and use it in selection job // News of Poltava State Agrarian Academy. – 2007. – №1. – P.96-97.

The results control feed of the pigs who have been carried out(spent) on nephewed plant shtepovka “Bottoms” of the sumskoy region. 13 grunt-manufacturers are appreciated and the following results are received: a daily average gain – 641 a, age of achievement of alive weight of 100 kg – 197,1 days. The pigs are characterized by good meat qualities: thickness of bacon at a level 6-7 chest pozvonok – 27,9 mm, area “mouseeyers” – 32,6 sm<sup>2</sup>, weight of a back third – 10,5 kg, length meat – 100,9 sm.

The best results on feed and meat qualities have shown smalling from grunt of large white breed of the Danish origin.

**S.N. Kulynych.** The new approaches in treatment is purulent – pus-inflammatory of processes toadstool of an origin in a site of a finger at the dairy cows // News of Poltava State Agrarian Academy. – 2007. – №1. – P.98-99.

The analysis of the treatment, given an offered method, of the cows with attributes toadstool of disintegration of a horn in the summer-pasturable period is submitted.

**E.B. Kirichko, B.P. Kirichko.** The microbial cenosis in purulent wounds of cattle by using combination antibacterial and antioxidant means // News of Poltava State Agrarian Academy. – 2007. – №1. – P.100-101.

The open wounds of farm conditions have contamination of pathogens or conditionally pathogens microorganisms. The antibacterial preparations using of combination means antioxidant action have speed up clear processes in wound for bacteriums.

**A.N. Kharenko, S.P. Khomyn, V.P. Ponomarenko, I.B. Voshchenko.** The data of main and young sow’s reproductive function and reasons it’s disappear under conditions of pig breeding farm // News of Poltava State Agrarian Academy. – 2007. – №1. – P.102-105.

In the article the data about main and young sow’s reproductive function and reasons it’s disappear under conditions of pig breeding farm are described.

**M.G. Initsky, A.V. Emeljanenko.** Indexes of exchange of connecting fabric after different methods of ovariectomy at bitches and piggy-wiggies // News of Poltava State Agrarian Academy. – 2007. – №1. – P.106-108.

In the article aiming indexes of exchange of connecting fabric at laparoscopy that laparotomy ovariectomy at bitches and piggy-wiggies. It is thus set that on 2 days level of qlikoproteins, qlicosubstitute and siais acids in the whey of blood of increase at the animals of all groups, and beginning from 6–10 days begin to go out on the level of foroperation. These changes are more peculiar at laparotomy access.

**I.H. Panasenko.** A filtration white keratins hydrolizates // News of Poltava State Agrarian Academy. – 2007. – №1. – P.109.

The search of materials suitable for protein keratin hydrolisates filtration revealed that 2-ply natural saking is the best filter.

**O.V. Evstafieva.** Comparative efficiency of the coproscopical diagnostic techniques of parasitic diseases among animals // News of Poltava State Agrarian Academy. – 2007. – №1. – P.110-111.

The most effective technique of performance coproscopical researches with use of the floating solutions is offered.

**A.A. Tomilin.** Ways of improvement of credit maintenance of activity of the enterprise // News of Poltava State Agrarian Academy. – 2007. – №1. – P.112-116.

There is done the analysis of attraction of credit resources of an enterprise. There is shown the main ways in improvement of the methods and effectiveness of improvement of credit capital.

**O.O. Sosnovska, O.A. Galych.** Efficiency of functioning of

market of meat and directions of his development // News of Poltava State Agrarian Academy. – 2007. – №1. – P.117-119.

It is explored modern market of meat development status, features of relations of enterprises of his participants, attained level of efficiency of production of meat and processing of products of growing of cattle and bird.

**L.D. Kotlyarov.** Competitiveness of the subject of managing in agrarian sphere // News of Poltava State Agrarian Academy. – 2007. – №1. – P.120-123.

The researches have shown, that today are necessary for increase of competitiveness of agricultural production domestic commony output the investments. At the decision of this problem the help of the state is necessary. In clause the definition of concept "competitiveness" is given.

**A.M. Hraphiyak, U.U. Shamota.** Essence and meaning of a manpower in conditions of formation of the market attitudes (relations) // News of Poltava State Agrarian Academy. – 2007. – №1. – P.124-125.

The article is devoted to the world's experience of working resources control on the labour market. The labour market functioning problems in Ukraine and abroad are considered. The perspective ways of youth engagement regulation and effective methods of specialist and leader evaluation are suggested by the author.

**S.V. Taranenko.** Efficiency of use cistern of mixes herbisid and mineral fertilizers on crops of a winter wheat // News of Poltava State Agrarian Academy. – 2007. – №1. – P.126-130.

The results of researches of optical closeness of tank mixtures of herbicides and mineral fertilizers which are utilized on sowing of winter wheat are resulted. Due to definition of optical closeness stability of components of tank mixtures, their compatibility, formation of synergism, is analysed.

**U.M. Barat.** Influence of terms of the tax on productivity and quality of a grain bearboil spring of barley // News of Poltava State Agrarian Academy. – 2007. – №1. – P.131-133.

Investigations which were carried out shone that crop capacity increased to the extent of grain ripening from state to fully ripening. Qualitative indices improved during harvest at the end of wax and at the beginning of fully grain ripening of spring barley and provided using fertilizer  $N_{90}P_{60}K_{60}$ .

**A.V. Bahan.** An estimation henophond of grades winter soft wheat for selection on quality of a grain // News of Poltava State Agrarian Academy. – 2007. – №1. – P.134-136.

Crop capacity and grain quality mild wheat has been investigated. Value sources for getting high-quality selective material have been singled out.

**O.S. Klymenko.** Study repelent of properties of some medical means // News of Poltava State Agrarian Academy. – 2007. – №1. – P.137-140.

The duration of repellency of Neostonasan, Aversect, ASD and oil cloves has been studied.

**S.H. Hlushchenko.** Toadstool of a defeat hoofed of the cows (on the basis of facilities(economy) of the Poltava area) // News of Poltava State Agrarian Academy. – 2007. – №1. – P.141-143. In article data that purulent-inflammatory processes distalis a department of finitenesses at cows are accompanied by stratification of mushrooms, bacteria are presented.

**S.A. Kyryukhin.** Influence smallwater and local entering of fertilizers on productivity and quality of fruits of a cucumber // News of Poltava State Agrarian Academy. – 2007. – №1. – P.144-146.

When growing cucumber for food aims in the Left Bank Forest Steppe of Ukraine the best method of irrigation is drop irrigation with the regime 80-75% HM on the background of local fertilization ( $N_{15}P_{60}K_{45}$  + fertigation  $N_{15}$ ). This ensures the yield and marketability of fruits 24,0 t/ha and 81,7% average for

three years. With this chemical indices of fruits do not deteriorate.

**O.A. Laslo.** Problems of preparation of the students and technique of teaching of discipline "Ecology" in higher educational institutions of an agrarian structure I-II and III-VI of levels of accreditation // News of Poltava State Agrarian Academy. – 2007. – №1. – P.147-151.

Formation which is proved by ecological culture, forms bases of spirituality and morals of the person. The person formed, especially ecologically, can not only understand consequences of the activity, but also is competent them estimate from the point of view of harmonious existence with the nature and choose variants of an output from adverse conditions.

**N.I. Kolodyazhny, A.N. Petrovsky, I.V. Dolyuk.** Automatic tether of the cows // News of Poltava State Agrarian Academy. – 2007. – №1. – P.152-155.

It is offered developed by the authors simple and economically favourable automatic tether of the cows in conditions them boxes of the contents.

**O.O. Derzhzhovsky.** Influence of homogenization on changes of biochemical structure of a grain of different kinds // News of Poltava State Agrarian Academy. – 2007. – №1. – P.156-159.

Results of researches of changes of a chemical compound of a grain of barley, wheat, corn and peas are stated in the pure state at their processing with use forage preparatory aggregate series AKGSM "Mriya-03". Comparison of different technologies of preparation of a forage for feeding of pigs was carried out.

**R.O. Slobodyan.** The peculiarity is spreading of eimeriosis of the young cattle in the various area of Ukraine // News of Poltava State Agrarian Academy. – 2007. – №1. – P.160-161.

The article is presents literature review and data own investigations of the peculiarity spread of eimeriosis of the young cattle in the various area of Ukraine. 66 % extensivety of invasion in the cattle 2-3 old month and disease process subclinical in 15% causes in the cattle 4-12 old month was established.

**N.C. Shcherbakova.** A degree of destruction of an antibiotic tilozin in bodies and fabrics a bird at inaktivation by (its) method bolinq // News of Poltava State Agrarian Academy. – 2007. – №1. – P.162-163.

Information is expounded about the degree of of remaining amounts of tilozine in the products of backwall of chickens in 1 hour after single introduction of antibiotic with water peroral, and also after cooking meat and light frosts.

**N.N. Nizhnichenko.** Features of prooxidant-antioxidizing status of the reproductive system of mammals // News of Poltava State Agrarian Academy. – 2007. – №1. – P.164-166.

Conducted the theoretical analysis of dependences of peroxidation and antioxidant protection and physiological of spermatozoa function of mammals.

**L.A. Reka, A.Ya. Malanchuk.** Complex use spetshoneys – pledge of successful conducting beekeeping // News of Poltava State Agrarian Academy. – 2007. – №1. – P.167-170.

The methods of cultivation entomophilnykh honeys of plants on sideralnic fertilizer are considered. These plants improve productivity of the basic agricultural cultures, and also enable enrich fodder base of beekeeping.

**T.P. Yatsun.** A history and development of agricultural research business of Poltava on pages of the newspaper "Khutoryanin" // News of Poltava State Agrarian Academy. – 2007. – №1. – P.171-175.

The scientifically-historical analysis of the historical printed mattes of weekly is conducted "Farmer"(1897-1917) on the pages of which was lighted up history of becoming and development of experimental business of Poltava. The scientific value of weekly is rosined as historical source, place and his role in distribution and popularizations of agronomical and

## ANNOTATION

practical achievements of agricultural experimental business.

**A.H. Blyznyuchenko.** Incorrect use of statistical methods in genetics and selection of animals // News of Poltava State Agrarian Academy. – 2007. – №1. – P. 176-183.

Proofs of tactlessness of the use of formulas of determination of coefficients of inbreeding and heritability are adduced in the advanced studies of selectionists and geneticists. On concrete examples illiterate manipulation of separate formulas is shown with violation of rules of mathematics. It is suggested to enter the mathematical criticizing of mathematical formulas for the purpose rightness of their algorithm.

**T.M. Bilyk, M.V. Kinder.** Methodology of target preparation of the experts // News of Poltava State Agrarian Academy. – 2007. – №1. – P.184-187.

On the basis of the comparative analysis the problem and rea-

sons of low efficiency of agricultural manufacture and preparations of the experts is identified. The tasks and principles of the system and cybernetic approach as bases of methodology are generated, the circuit of adaptive system of target preparation of the experts in system "a science – expert – manufacture" is developed.

**M.I. Drahan, R.E. Hryshchenko.** Productivity crops of cultures and analysis of scientific job in skilled establishments woodings and Polissia // News of Poltava State Agrarian Academy. – 2007. – №1. – P.188-193.

Grout crop yield and the analysis of research work in experimental institutions of the Forest – Steppe and Polissia.

The priority questions are considered and brief analysis of experimental results on goat crop growing at research institutions of the Forest – Steppe and Polissia zones is given.

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