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*S. F. Shvyd, S. G. Bregega, A. O. Yarosha, O. V. Hechiporenko, P. V. Pysarenko, O. A. Gorb* Agrichemical certification of soil of agricultural purpose in Poltava region. Report 1. Humus balance // News of Poltava State Agrarian Academy. – 2006. – №2. – P. 27-30.

The question of autoregulation of humus soil state in Poltava region is considered. Data of the VII th round of soil agrichemical certification in Poltavshina given.

*B. V. Dsyubetsky, V. M. Borisov, V. M. Kravchenko* Determination of familiarity degree of autogamous corn lines of three heterosic plasma on the base of heterosis indices // News of Poltava State Agrarian Academy. – 2006. – №2. – P.31-33.

Autogamous corn lines on the level of heterosis with the purpose of differentiation on genetic variety within the limits of germ-plasm.

*Yu. P. Yanovsky, I. S. Kravets, O. G. Sukhomud* Protection of fruit nursery against winter moth and mottled umber moth and particularities of biology and harmfulness in the Central Forest-Steppe of Ukraine // News of Poltava State Agrarian Academy. – 2006. – №2. – P.34-38.

The results of investigations on study of particularities of biology and harmfulness of winter moth, mottled umber moth and protection of nursery plantations against pests in the Central Forest-Steppe of Ukraine.

*N. M. Osokina* Objective agriclimate indices of consumer ripeness of black-currant fruit // News of Poltava State Agrarian Academy. – 2006. – №2. – P.39-41.

Objective agriclimate indices for establishing of consumer ripeness of black-currant fruit are given.

*M. Ya. Shevnikov* The principles of selection of soybean sorts and hybrids of maize for belt sowing // News of Poltava State Agrarian Academy. – 2006. – №2. – P.42-48.

This is an analysis of the principles of selection of soybean sorts and hybrids of maize with different rates of ripening for sowing in row grain crops. The essence of technology is to grow crops in rows, alternating rows of maize and rows of soybeans. The harvest was observed to increase by 12-15% for soybeans and 20-24% of maize.

*L. D. Glushenko, I. A. Cherkizov, V. V. Gangur, Yu. V. Bilyavskiy, N. I. Gryb, N. N. Opara, M. N. Ampilogova, E. Yu. Matveeva, V. N. Kasych, S. M. Kalinichenko, L. V.Khomenko, T. P. Yatsun, L. V. Kavalir, P. G. Sokyрко, V. N. Tovstoshkur* Permanent rye is 120 years old // News of Poltava State Agrarian Academy. – 2006. – №2. – P.49-52.

It has been determined that at right use at agricultural production dark-grey podzolic soil keeps high fertility for a long time and winter rye endures perennial sowing on the same place without essential decreasing of yield.

*V. V. Buidin, V. Yu. Nor, S. V. Pospelov, V. N. Samorodov* Peculiarities of effect of extracts from different parts of *Echinacea purpurea* (L.) Moench on growth of barley root // News of Poltava State Agrarian Academy. – 2006. – №2. – P.53-57.

Biological activity of inflorescences, rhizomes with roots and leaves of *Echinacea purpurea* (L.) Moench by the methods of biotesting of barley sprout have been studied. It has been established that inflorescences and leaves contain more growth-stimulative compounds and rhizomes with roots contain more growth-stopping compounds. At rise in temperature of incubation (to 30°C) rate of root growth increase. During all variants of experiments in two days, essential growth-stopping of barley roots occurs, which stops later on. At diluting extracts effect effectiveness on test object increases.

*E. D. Ivashenko, S. K. Sheshenya, N. O. Buevich* Dependence of active water acidity, concentration of hydrogen ions and contents of sulphate on terms of magnetic water treatment and force of magnetic field // News of Poltava State Agrarian Academy. – 2006. – №2. – P.58-59.

Dependence of active water acidity, concentration of hydrogen ions and contents of sulphate in tap water in dependence on terms of magnetic treatment and force of magnetic field.

*M. A. Kudryk, Zh. E. Plakhotina, K. P. Steblina* Influence of range of electromagnetic field induction and processing time on physical-chemical qualities of redistillation // News of Poltava State Agrarian Academy. – 2006. – №2. – P.60-61.

Influence of induction force and processing time of redistillation on specific gravity, tenacity, surface tension, molecular refraction, availability of hydrogen peroxide

*L. N. Kobyzeva* Polymorphism of albumin in soybean seeds in the conditions of Eastern Forest-Steppe of Ukraine // News of Poltava State Agrarian Academy. – 2006. – №2. – P.62-64.

In the conditions of Eastern Forest-Steppe of Ukraine polymorphism of protein in soybean seeds of 135 specimens from the National collection of National Center of genetic resources of Ukrainian plants. Reliable changeableness of albumin was discovered in according to variety and insignificant one was discovered in according to climatic growing condition. Total low level of albumin contain in soybeans seeds of investigated population was noted. Sources of increased albumin contain are chosen: Teresinska 24, Teresinska 10A, Japan– Shika №1, Tokyo, Bulgaria – BY-5819, BY-5831, which we recommend to use in selection on increasing of seed albumin.

*O. S. Kozubenko, P. V. Kostogryz* Moisture provision sugar beet plants, spring barley and corn at changing of the traditional variant by alternative ones of main

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tillage in crop rotation // News of Poltava State Agrarian Academy. – 2006. – №2. – P.65-68.

The replacement of moldboard ploughing by zero – tillage in five - field crop - rotation were not followed by worsening water provision of sugar beet, spring barley and corn during their vegetation period.

*S. M. Lisitskaya, A. K. Balalayev* Statistical evaluation of influence of the matrix base on efficiency of insecticides in dynamics of potato agroecosis development // News of Poltava State Agrarian Academy. – 2006. – №2. – P.69-74.

Using multidimensional statistical methods of the analysis of experimental data allows to estimate the influence of ecologically safe components of the matrix base, which is obtained from waste products of oil extraction manufacture, on biological effectiveness of insecticides against the Colorado beetle in a potato agroecosis; also it is shown the possibility to reduce the expenditure rates of different chemical classes insecticides at their integrated utilization with substances of the matrix base (RAPT –vegetable aphid against aphid).

*A. V. Sidorenko, S. A. Agavonova, R. V. Olepir* New technique against weeds at soybean growing // News of Poltava State Agrarian Academy. – 2006. – №2. – P.75-77.

Packing of soil during pre-sowing period, which gives optimal conditions for the struggle with weeds.

*O. M. Khomchyak, M. Yu. Khomchyak, S. P. Poltoretzky* Energy efficiency of of different rates of mineral fertilizers in vegetable pea growing on different soil // News of Poltava State Agrarian Academy. – 2006. – № 2. – P.78-80.

The application of various mineral fertilizers facilitates the yield increase of vegetable pea seeds by 1.6–4.9 centners per hectare on grey forest soil and opodzolic chernosem with the average phosphorus and potash supply, when energy efficiency is high enough.

*S. G. Kholod* Significance of index of duration of vegetative period for millet selection // News of Poltava State Agrarian Academy. – 2006. – №2. – P.81-85.

Results of studying of samples of the National collection of millet on a parameter length of a growing season are given. Connection with economic parameters is shown. Data have the big value for selection of highly productive varieties of millet with an optimum growing season and the maximal parameters of valuable economic attributes. Discharged sources of millet, which combine high productivity and stability of growing season are given.

*I. S. Tronchuk, I. Yu. Berdnyk* Influence of concentration of interchange energy and nutritive materials in dry substance of rations on milch cows productivity // News of Poltava State Agrarian Academy. – 2006. – №2. – P.86-90.

Experimental data and practice of leading farms about

influence of chemical composition and sustenance of dry substance of rations on dairy production are summarized. Proposals on organization of valuable feeding during winter period with rations with usage of soy exudation are given. These rations provide daily milk yield on the level of 24-27 kg.

*G. A. Lykyanova, V. I Glazko* Dynamics of number and breeds variety of the horses in AR of Crimea // News of Poltava State Agrarian Academy. – 2006. – №2. – P.91-93.

The results of analysis breed contain and change of the number of horses' livestock the in AR of Crimea during last decades are published.

*V. M. Nagaevich* Formation and development of scientific-and-educational zoo technical institution in Poltavshina (the end of the 19<sup>th</sup> –the beginning of 20<sup>th</sup> centuries) // News of Poltava State Agrarian Academy. – 2006. – №2. – P.94-98.

The stages of formation and development of scientific and educational zoo technical institution in Poltavshina in 20s-30s of the 20<sup>th</sup> centuries.

*A. A. Byndyug, V. A. Lobchenko, O. A. Vagidova* Effectiveness of usage of bacterial preparation in pig breeding // News of Poltava State Agrarian Academy. – 2006. – №2. – P.99-101.

The results of use of probiotic preparation "Monosporin-PK" for a piglets and a growing pig are presented.

*S. G. Zinoviev* Influence of dry fermented forages on a pool-free amino acids of piglets' blood serum // News of Poltava State Agrarian Academy. – 2006. – №2. – P.102-104.

Positive influence of two-month feeding dry fermented forages made with use of preparation "Baikal" EM 1 U, on a pool-free amino acids of pigs blood serum is revealed.

*E. F. Tomin* Pig productivity at different methods of breeding and levels of feeding // News of Poltava State Agrarian Academy. – 2006. – №2. – P.105-107.

Experimental data of scientific and economic experience about crossing and hybridization of pigs at different methods of feeding.

*A. N. Chehklaty* Historical aspects of studies about pig feeding // News of Poltava State Agrarian Academy. – 2006. – №2. – P.108-112.

Science development and formation stages about feeding of farm animals are reflected in historical aspects. Contribution of domestic and foreign scientists into the formation of studies about pig feeding is shown.

*Yu. P Aknevsky.* Effect of growth energy on exterior peculiarities of purebred and crossbred young pigs // News of Poltava State Agrarian Academy. – 2006. – №2. – P.113-117.

Pig replacement exterior has been estimated depending on breeding method and growth energy.

*S. O. Semenov, A. A. Vyslanko, N. A. Birdan, N. I. Chapovsky* Biostimulants with prebiotic effect in

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young pigs' rations // News of Poltava State Agrarian Academy. – 2006. – №2. – P.118-121.

The results of the research concerning study of biostimulants with prebiotic effect – Bioacide, Bioacide-2 and Technomos – in young pigs' feeding are presented.

*V. I. Izdespkiy, S. S. Chelidse* The increase of sheep organism resistance is base of hoof rot prophylaxis // News of Poltava State Agrarian Academy. – 2006. – №2. – P.122-125.

Full feeding of sheep promote increasing organism resistance and hoof rot prophylaxis.

*P. N. Gavrilin, N. N. Tishkina* Peculiarities of dynamics the cellular structure of the functional zones lymphoid tissue of lymphatic knots in the neonatal sucking-pigs // News of Poltava State Agrarian Academy. – 2006. – №2. – P.126-129.

Peculiarities of citoarchitectonics functional zones of lymphatic knots neonatal sucking-pigs were determined. Morphological indications of functional specialization and immunobiological activity of segments of somatic and visceral knots in the sucking pigs to moment of the birth were established.

*I. G. Panasenko* Coagulationless neutralization of alkaline albuminous hydrolysates // News of Poltava State Agrarian Academy. – 2006. – №2. – P.130-133.

Results of studying of influence of different temperatures at neutralization alkaline albuminous hydrolysates are given. As a result unknown earlier property alkaline albuminous hydrolysates to neutralize coagulationlessly under the certain thermodynamic conditions.

*S. N. Kulnich* Causes of mycotic lesion of hoofs during winter- barnyard period and particularities of clinical findings // News of Poltava State Agrarian Academy. – 2006. – №2. – P.134-136.

On the base on “Yuvileyny” of Poltava State Agrarian Academy particularities of clinical findings of pyoinflammatory process of toe in cows during winter-barnyard period has been established and pathological role of microscopic fungus in pyoinflammatory process formation.

*S. B. Peredera, P. V. Teslenko, N. S. Sherbakova* Epizootology: diagnostics and recovery from leucosis in cattle // News of Poltava State Agrarian Academy. – 2006. – №2. – P.137-139.

Epizootic analysis of leucosis in cattle on the territory of Ukraine and in Poltava region, methods of improvement and diagnostics were made.

*Y. V. Musienko, I. B. Voschenko, A. M. Chekan* Influence of biologically-active preparations on length of the farrow stages // News of Poltava State Agrarian Academy. – 2006. – №2. – P.140-143.

Influence of the placenta denatured emulsification (PDE) and oestrophan (analogue prostaglandin F<sub>2α</sub>) on length of the parturition of the sows of the large white sort depending on a serial number of the farrow are

shown.

*V. V. Pysarenko, T. M. Pryslopska* Domestic experience of realization of successful strategies in agrobusiness // News of Poltava State Agrarian Academy. – 2006. – №2. – P.144-147.

Marketing activity and marketing strategies of such large fruit and vegetable canneries as “Veres”, “Chumak” “Siverfud” and others (relatively production, prices and sell) and other factors, which carried these companies to success were analyzed.

*V. O. Kompaniets* Ecological-and-economical aspects of fertilizer applying at technology of winter wheat growing // News of Poltava State Agrarian Academy. – 2006. – №2. – P.148-153.

The condition of using of fertilizers to a winter wheat in agricultural enterprises of Dnipropetrovsk region from the view of soil fertility conservation is investigated. The economic estimation of experimental research results on the studying of efficiency of mineral fertilizers applying in technology of winter wheat production is carried out.

*Ju. V. Ushkarenko* Formation and order of use the property fund of agricultural co-operative in the condition of market economy // News of Poltava State Agrarian Academy. – 2006. – №2. – P.154-158.

Making of special property fund – indivisible and joint-stock as one of the principle of activity of agricultural co-operative society was considered. A land area is a component of share fund of the co-operative or indivisible fund at assignation into usage of the co-operative or in case of belongings to the co-operative society on property rights.

*R. I. Sharavara* Forming of relationship system between a manager and small stockholders: transaction aspect // News of Poltava State Agrarian Academy. – 2006. – №2. – P.159-163.

Attempt of analysis of problem of transaction aspect of relationships between a manager and small stockholders is done. On the grounds of analysis corresponding measures on protection of stockholders from unfair actions of managers or owners of enterprises.

*A. P. Kvasha* Biological activity of soil under permanent sowing of sugar beet // News of Poltava State Agrarian Academy. – 2006. – №2. – P. 164-165.

Biogenic structure of topsoil under permanent sowing of sugar beet was investigated. Main tillage for 30 years is ploughing on 30-32 cm. It has been established that under influence of ploughing, weak differentiation of topsoil on quantity and content of active microflora is observed since at such tillage biogenic structure of bottom layer is increased.

*N. V. Dubenets* Modern state of effectiveness and prime cost of pork production in Poltava region // News of Poltava State Agrarian Academy. – 2006. – №2. – P. 166-170.

The analysis of prime cost of pork production in different farm-type farms of Poltava region was

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conducted. Comparison with its prime cost of pork production in countries, which are the potential pork-exporters to Ukraine. Effectiveness of pork production in Poltava region was considered and the prognosis of the development of this branch for the nearest perspective worked out.

*L. N. Boldyreva* Outsourcing of transport in Agricultural-Industrial Complex (AIC) //News of Poltava State Agrarian Academy. – 2006. – №2. – P.171-175.

The analysis of alternative employment of private or rented transport by AIC enterprises is presented. Methodological approaches as for employment and algorithm of operations while choosing the variant of providing enterprises by transportation means are stated.

*A. T. Oprya* Mathematical estimation of reliability of statistic parameters in correlational modeling of economical events // News of Poltava State Agrarian Academy. – 2006. – №2. – P.176-180.

Multidimensional character of signs and complexity of the economic models need the profound quantitative analysis on the basis of the mathematically-statistical methods enabling us to have reliable estimations of the

objectivity of the obtained results. The peculiarity of the correlatively-regressive method of analysis of the economic phenomena needs the consideration of the specific character of its usage when it carries out the analytical functions for the provision of objectivity of the managerial decisions.

*N. A. Martynenko* Swine as a model in biomedical researches. Xenotransplantation (review) // News of Poltava State Agrarian Academy. – 2006. – №2. – P.181-188.

Medical-biological and ethical problems of the xenotransplantation, modern state and subsequent development with reasons of the inevitable use of the swine (*Sus scrofa domesticus*) as main producer of organs, tissues and cells was interpreted. The causes and the overcoming methods of the porcine xenotransplantation seizure, and prevent of the recipient's contamination by typical porcine infections was interpreted also. The analyses of the 10-years clinic practice showed positive results attached to cell xenotransplantation and extracorporeal perfusion, but not of whole organs xenotransplantation, which are on the preclinical stage.

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