SUMMARIES

Bazaliy V.V., Pankeyev S.V., Karashchuk G.V. Grain yield of irrigated soft and durum winter wheat varieties depending on the nutrition background in Southern Ukraine

The article presents the results of studies into the impact of varietal features and agro-ecological factors on the grain yield of soft and durum winter wheat varieties under irrigation.

Key words: winter wheat, variety, nutrition background, crop irrigation.

Anastasenko S.M., Gaivoronsky V.A. Analysis of the characteristics of the servo system of a modernized gas cutting machine

The article analyzes the characteristics of the drive and dynamic properties of the servo system of a modernized gas cutting machine in accordance with the specifications and fundamentals of logistics management.

Key words: analysis, drive and dynamic characteristics, property, evaluation, system, servo.

Babych L.O., Samarin O.E., Artyushenko V.V. The study of the chopper of the combine harvester КЗС-9-1 *Slavutich*

The article provides a comparative study of the main quality indices of serial (radial type blades) and experimental (tangential type blades) cutting devices mounted on the combine harvester КЗС-9-1 *Slavutich*. It determines the length of the shredded particles, area and uniformity of spreading the mass in the field. The research is conducted under laboratory conditions close to the operating conditions. Practical recommendations on the possibility of using the pilot chopper in serial combine harvesters are given.

Key words: cutting device, radial blades, tangential blades agrotechnical indices.

Berdnikova O.G. The formation of grain yield of winter wheat depending on the mode of irrigation, fertilization and climatic conditions in the south of Ukraine

The article presents the characteristics of the formation of winter wheat varieties Khersonskaya Bezostaya and Odesskaya -267 depending on irrigation regimes (water supply, vegetation irrigation) and nutrition background under the conditions of Southern Ukraine.

Key words: moisture, water supply, biometrics, productivity, foliar application, Tenso, Cristalone, net productivity, photosynthesis, photosynthetic potential.

Borysova V.V., Cherchel V.Y., Dzyubetsky B.V., Satarova T.N. SNP- alleles frequency in corn lines of Ukrainian breeding

The study investigates single nucleotide polymorphism of corn lines of domestic breeding compared with a collection of lines of American and European origin using the SNP-method. It establishes a difference in allele frequencies in 36 out of 39 SNP-

analyzed markers located on chromosome 3 for the two investigated groups of lines. Ukrainian lines have greater variability in SNP-alleles frequency. It is shown that in the studied SNP-marker sites of chromosome 3, purine nucleotides are the most common, single nucleotide substitution of which mainly occurs through transitions. Pyrimidine nucleotides are significantly less common among the sites studied, and vary through transversions.

Key words: corn, DNA polymorphism, allele, SNP-marker, nucleotides, line.

Vasylenko N.E. The photosynthetic capacity of castor bean varieties

The article presents the results of studying the varietal agrotechnics of castor beans of different maturity groups. It determines the effect of the factors under study on the productivity of castor beans.

Key words: castor bean, variety, sowing date, plant population, yield, oil yield.

Voitsekhovska O.S. The dynamics of leaf area formation of winter barley depending on various systems of basic tillage and fertilizer application in short crop rotations in Southern Ukraine

The study shows that the largest leaf area was registered in the phase of wax ripeness of plants under the subsurface treatment system, and it amounted to 11.1 thousand m^2/ha in the rotation with green-manured fallow; in crop rotations with bare and occupied fallow the combined treatment system had an advantage, and here leaf area was 9.9 and 9.1 thousand m^2/ha respectively. In the rotation with peas for grain, both subsurface and combined treatment systems provided the same index (8.2 thousand m^2/ha), whereas under the moldboard system and fine tillage it ranged within 7.9 - 10.5 and 8.1 - 10.6 thousand m^2/ha.

Key words: barley, leaf area, tillage, crop rotation**.**

Gavryushenko O.O. The study and substantiation of the dynamics of some edaphic characteristics of reclaimed lands under long-term phytoamelioration on the example of Nikopol manganese ore basin

The article features the results of a long-term impact of phytoamelioration on the dynamics of edaphic properties of tehnozems and aboveground biomass productivity of legume-koeleria components.

Key words: restoration, tehnozem, rocks, edaphic properties, phytoamelioration.

Gryb V.M., **Gryb I.V. The formation of the aboveground components of artificial pine plantations**

The article presents the results of studies of the intensity of transpiration of pine needles in artificial pine plantations, as well as of the development of herbaceous vegetation during the growing season. The structure and amount of forest litter in pure and mixed stands are also investigated.

Key words: artificial plantations, Pinus sylvestris, transpiration, organic litter, mineralization.

Gubar O.V. Grain yield and quality of popcorn hybrids depending on plant population

The article presents the results of three years of research on the specifics of the formation of grain yield of popcorn hybrids Volcano and Dnieper 929, depending on plant density (40, 50, 60, 70 thousand/ha). It provides quality parameters of popcorn grain - nitrogen, phosphorus, potassium, crude protein, starch, fiber, fat, and nitrate content.

Key words: popcorn, hybrid, plant population, yield, grain quality.

Zhuikov O.G. Experimental study of the technological aspects of the fertilization system of black mustard in the southern steppe

The article provides the results of experimental verification of the effectiveness of different rates, time and methods of mineral fertilization for black mustard that is a new oil crop in the south of Ukraine. The study establishes a relationship between seed productivity, oil percentage and essential oil content and the above factors. It also analyzes the application expediency and application technology of liquid combined fertilizers in the black mustard crop.

Key words: black mustard, fertilization system, mineral fertilizers, application rates and time, foliar fertilization, yield and seed quality.

Kazanok O.O., Sukhotin A.S., Pilyarsky V.G. - Yield and quality of soybeans grown in Southern Ukraine depending on the varietal composition, mineral nutrition and irrigation regimes

The article provides the results of studies aimed at examining the impact of growing conditions and biological characteristics of varieties on the level and quality of the soybean crop in the southern zone of Ukraine.

Key words: variety, soya, mineral fertilizers, irrigation, technology, quality.

Kokovikhin S.V., Smolienko N.D., Mikhalenko I.V. Organizational aspects of forming the irrigation regime at the farm and crop rotation levels with the application of modern information technologies

The article contains practical recommendations for the use of the CROPWAT 8.0 software product in the organization and irrigation planning, optimization of irrigation modes, water waste reduction, as well as for getting high yields and reaching the highest economic and energy efficiency.

Key words: irrigation, software, module, climatic indexes, irrigation timetable.

Kosenko N.P. Seed productivity of onion under a transplant growing method in Southern Ukraine

The paper presents the results of studies of the effect of autumn and spring planting dates, mother bulb weight and area of plant nutrition on onion seed yield. It finds that the highest seed yield of 0.89 t/ha was obtained under the conditions of the autumn planting (last 10 days of October) of mother bulbs weighing 100-120 g, with an area of plant nutrition of 560 cm^2 (70 x 8 cm).

Key words: onion, seeds, seed production, masterbatch bulb, planting time, area of nutrition.

Lavrynenko Y.O., Vozhegova R.A., Dovbush O.S. The influence of microfertilizers on the sowing qualities of rice

The article looks at the results of research on the effect of trace elements on the sowing qualities of rice. The greatest positive impact on the germination of rice seeds was revealed when using the drug Reacom silicon. An increase in germinating power occurs due to the reduction in the number of rotten and abnormally germinated rice seeds.

Key words: trace elements, germination, germinating power, rice, seeds.

Mykhalenko I.V. Economic and technological aspects of increasing the competitiveness of corn seed production under irrigation in Southern Ukraine

The article presents the results of research aimed at increasing the competitiveness of domestic producers of corn seed in the southern steppes of Ukraine through economic and technological factors.

Key words: sowing time, corn, productivity, irrigation.

Morozov O.V., Morozov V.V., Beznytska N.V., Nesterenko V.P. Dependence of the productivity of major agricultural crops on soil pH in the steppe zone of Ukraine

The study establishes a relationship between the yields of major agricultural crops and soil pH in the Ukrainian steppe. It determines optimum parameters of soil pH for the formation of crop yields under current management conditions, including irrigated lands.

Key words: soil, climate, yield, soil pH.

Morozov O.V., Morozov V.V., Polukhov A.Y., Beznytska N.V., Nesterenko V.P. The state and dynamics of changes in key indicators of soil fertility of rice irrigation systems

The research is aimed at resolving the urgent problem of agricultural land improvement, and increasing the fertility of dark chestnut soils in rice irrigation systems (RIS) of Ukraine. The analysis of the current eco- agromeliorative state of soils highlights the main causes of their poor condition and helps to develop ways of enhancing land use efficiency.

Key words: irrigation, rice, soils, fertility**.**

Okselenko O.M. The efficiency of sugar corn hybrids cultivation depending on seed incrustation with microfertilizers and protectants on different sowing dates

The study determines the effect of seed incrustation of sugar corn hybrids Spokusa and Kabanets CB with microfertilizers and protectants on the productivity and economic efficiency of their cultivation at different sowing times.

Key words: hybrid, sugar corn, group of ripeness, sowing time, seed incrustation, Vitavax, Reacom, tank mix, productivity, cost, operating costs, economic efficiency, profitability.

Onufran L.I. Productivity of spring barley depending on the variety, seeding rates and fertilizers

The article presents data on the effect of seeding rates and mineral fertilizers on grain yield of different varieties of spring barley in southern Ukraine.

Key words: spring barley, variety, seeding rate, fertilizers.

Rumbakh M.Y. The influence of technology elements on bio-energy and economic indices of growing corn hybrids in the Ukrainian steppe

The article analyzes the results of a three-year-long field experiment (2007-2009) on the development of varietal agrotechnics elements for new corn hybrids. It includes economic and bioenergy analysis of growing six corn hybrids.

Key words: corn, hybrid, plant population, mineral nutrition.

Solokha M.O. Determination of nitrogen supply of winter wheat using aerial photography

The article features the results of detailed aerial photography done using an unmanned aircraft to determine the state of nitrogen supply of winter wheat crops. It also presents data on the parallel ground survey conducted with the application of contact methods using Spad500, which confirmed the findings of aerial photography.

Key words: aerial photography, pilotless aircraft, winter wheat.

Ushkarenko V.O., Siletska O.V. The productivity of perennial alfalfa, efficiency of its water consumption depending on fertilizers and overseeding the field with fodder crops

The article looks at the results of three years of research into the productivity and efficiency of water use by perennial alfalfa, depending on fertilizers and overseeding the field with fodder crops.

Key words: perennial alfalfa, overseeding, fertilization background, fodder crops, productivity, fresh yield, total water consumption.

Ushkarenko V.O., Filipova I.M. Dynamics of water consumption and productivity of the *Silybum marianum* at growing on the irrigated lands of the South Ukraine

In the article the results of researches are resulted at *Silybum marianum* at growing on the irrigated earths of south of Ukraine. The dynamics of total water consumption depending on the explored factors is set. Efficiency of the use of ploughing on a depth is proved 20-22 cm, sowing with spaces between rows 60 cm at the end of March and taking away of mineral fertilizers by the dose $N_{90}P_{90}$.

Keywords: *Silybum marianum*, treatment of soil, width of spaces between rows, terms of sowing, mineral fertilizers, water consumption, productivity.

Fedorchuk M.I., Voitsekhovskyi I.O. The effect of technological practices on the biochemical composition of spring barley

The study shows that the highest protein content (12.2%) was obtained at the N_{90} background, it is by 0.83% higher than when Radostim was used (11.37%). This allowed getting the highest starch content (60.34%). The N_{90} variant resulted in the lowest starch content of 59.28%. The highest productivity was marked at the N_{90} background, while the control plot produced the lowest grain yield of spring barley.

Key words: starch, protein, fertilizer, barley, yield.

Chernyshenko P.V. Seed size as a factor of influence on soybean seed yield

The article presents the results of 3-year-long studies on the expediency of using different fractions of soybeans for sowing. It shows that in the eastern part of the forest-steppe zone of Ukraine middle-sized seeds equal large ones in yield, and they significantly exceed small-sized beans in yield and seed quality indices.

Key words: soybean, variety, seed fraction, seed size, yield, laboratory germination, germinating power, weight of 1000 seeds, protein, oil.

Shevchenko I.V., Mynkina G.O., Mynkin M.V., Omelchenko M.M. Analysis of the spring water cycle of the active soil layer of vineyards

The article presents the results of studying the characteristics of the water balance of the active soil layer of vineyards, and proposes some techniques for its regulation.

Key words: moisture reserves, movement of moisture in the soil, water consumption.

Sheludko O.D., Markovska O.E., Ursal V.V. The influence of irrigation on the diapause of wheat fly

The paper provides data on the effect of irrigation of winter wheat on the development of wheat fly in the southern steppes of Ukraine.

Key words: winter wheat, irrigation, wheat fly, diapause**.**

Shershova S.V., Pospelov S.V. The study of the impact of Echinacea pallida extract on the productivity of spring barley

The paper studies the efficiency of biocorrection of seed barley (Hordeum sativum (Lessen)) productivity with stimulants of natural origin. The presowing treatment of barley seed with the extract of Echinacea pallida at a concentration of 10^{-2}%, 10^{-6}% increases the content of the main photosynthetic pigments in leaves (up to 17.5%), and provides an increase in grain yield up to 15.4% at the expense of productive tillering and weight of 1000 grains.

Key words: Echinacea pallida (Nutt.) Nutt., Beauty of the Prairies, seed barley, Hordeum sativum (Lessen).

Yakunin O.P., Khramtsov L.I., Trubilov O.V. Grain yield of corn hybrids, depending on tillage and the level of mineral nutrition

The study determines the effect of basic soil treatment methods and the level of mineral nutrition on the content of available moisture and nutrients in the soil, as well as on grain yield of corn hybrids of different maturity groups.

Key words: corn, tillage, mineral fertilizers, moisture, nutrients, grain yield**.**

Yaroshenko L.M. Resistance of invasive vegetation to herbicides

The study highlights the impact of invasive plant species on agricultural crops, and analyzes some aspects of herbicide application. It shows that extensive application of chemicals leads to the formation of resistant invasive vegetation, which aggravates the problem of weediness.

Key words: herbicide, resistance, invasion, weediness.

Arkhangelska M.V., Ryapolova I.O., Vognivenko L.P., Novikova N.V. Biochemical studies of the blood of boars with different adaptability rates on the breeding farm "Freedom Farm Bacon"

The study finds that after the impact of technological stress-factors, boars of different modal classes reveal typical changes in biochemical parameters as a result of hormonal changes in the body. Class M+ animals have more pronounced adaptability to stress-factors, and it is reflected in the biochemical parameters of their blood serum.

Key words: stress-factor, total protein, transamination enzymes, creatinine, calcium, phosphorus.

Batyr R.Yu. Milking frequency and the productivity of dairy cows

The paper presents the results of experimental studies of the productivity of cows milked twice, partly three times, and three times a day with the application of an innovative technology of milk production. The research was conducted at the agricultural enterprise "Ilyich Agro-Donbass".

Key words: cow, milking frequency, technology, lactation curve, intensity of milk production, milk quality.

Beregova G.D., Ruptash N.V. Formation of ecological awareness of future animal breeders

The article is devoted to one of the most urgent problems of modern philosophy of education - ecological education of future animal breeders. Ecological education of students is considered to be an integral component of the formation of a creative, humane, planetary and cosmic type of personality who will combine personal interests with professional and human values.

Key words: philosophy of education, human values, ecological knowledge, ecological education, ecological awareness, personality of a future specialist.

Guzeyev Yu.V. Histological studies of buffalo hides of the Ukrainian population

The article deals with the histological studies of buffalo hides of the Ukrainian population heterogeneous by age, weight, season and other factors. It highlights the following characteristics: size, depth, thickness, shape and other parameters of the main layers of buffalo skins, sebaceous and sweat glands. The study considers the dynamics of these indices with the age of the animals (from 24 hours to 10 years of age and older). It provides a detailed examination of buffalo skin hair.

Key words: buffalo, histology, skin, glands.

Guzeyev Yu.V. Papakina N.S., Naidyonova V.O. The problem of animal husbandry revival in the steppe zone of Ukraine

The article provides a preliminary analysis of the current state of animal husbandry in the steppe zone of Ukraine. It highlights some key provisions for the revival of the various livestock breeding industries.

Key words: steppe, animal husbandry, dairy cattle, zebu cattle, sheep breeding.

Iovenko V.M., Nezhlukchenko N.V. The genetic structure of the fine-wool Askanian sheep population according to molecular genetic markers

The paper features the results of studies of polymorphic proteins and enzymes of thoroughbred Askanian fine-wool Merino sheep in comparison with the sheep produced through crossing with Australian Merino sheep.

Key words: sheep, polymorphism, proteins, enzymes, genetic structure, heterozygosity.

Ishkhanyan A.R. Reproductive characteristics of Large White pigs under different breeding methods

The article considers reproductive qualities of sows depending on the growth rate. It finds that the highest rates of reproductive qualities were obtained through cross-breeding Large White sows with Duroc sires. Under both methods, sows with a live weight of more than average in all age periods under study proved to have better characteristics.

Key words: pig, reproductive quality, growth rate, breeding method, cross-breeding.

Makarchuk A.V., Penilyuk S.I., Svistula M.M. Comparative assessment of the impact of biologically active substances on the productivity of sheep

The paper presents the results of the application of the drug Vitaton and probiotic Batsel in the diets of young sheep. A comparative evaluation of animal productivity indices allowed identifying specific features of the effect of these drugs on the productivity of ewes and live weight dynamics in lambs.

Key words: feeding, feed supplements, sheep, lambs, productivity, live weight.

Novikova N.V. Morphological aspects of the interaction of the pituitary and adrenal glands under the influence of stress factors

The study finds that after the impact of technological stress-factors in Large White pigs with different adaptive rates there have been observed specific changes in morphological parameters of the pituitary and adrenal glands, which forms the body's adjustment mechanism at the tissue level.

Key words: stress-factor, cell, pituitary, adrenal glands.

Tunikovska L.G. The relationship between economically valuable traits of cows and the exterior and linear evaluation

The study makes a linear evaluation of cows by their exterior indices and proves their effect on milk production. It shows that such an assessment is an expedient method to raise the amount and quality of cow's milk.

Key words: exterior, cows, milk production, evaluation.

Shcherbina O.V. Specific features of the relationship between live weight and the morphological composition of eggs and exterior characters of the Isa brown cross

The paper shows the connection of quantitative and qualitative productivity characters of the Isa brown poultry cross distributed into classes according to live weight and leg length, and placed on different floors of cell batteries. It reveals a low negative

correlation between body weight and egg mass, a positive and relatively high correlation between morphological parameters of eggs, a positive and high correlation between the live weight of poultry and exterior characteristics.

Key words: cross, egg, egg yolk, egg white, shell, floor, distribution class, correlation, live weight.

Morozov V.V., Bulygin O.I. Formation of the optimum water and salt regime of dark chestnut soils at the background of vertical drainage in the Krasnoznamenskaya irrigated area

The paper presents the results of research into the formation of the water and salt regime of the Krasnoznamenskaya irrigated land area at the background of vertical drainage. For winter wheat, the indices of optimal soil moisture, moistening depth and soil regimes are determined. The study establishes regularities of changes in the water regime and physical and chemical properties of dark chestnut soils in the period of changes in the conditions of the system "irrigation - vertical drainage" performance (1989 - 1992) up to the current state of limited resources in an unstable economic climate (2003-2005), and predicts further directions of their development. It proposes a set of eco-reclamation measures to ensure the formation of the optimal water and salt regime of dark chestnut soils in the Krasnoznamenskaya irrigated area.

Key words: land reclamation, soil, water and salt regime, drainage.

Morozov V.V., Morozov A.V. Principles of providing theoretical and methodological support for the ecological and land reclamation monitoring of irrigated lands

The developed principles of scientific and methodological support are recommended for use in creating a geographic information system of ecological and land reclamation monitoring and the optimization of the eco-ameliorative regime of irrigated landscapes.

Key words: irrigation, ecological and land reclamation monitoring, eco-ameliorative regime, system approach.

Pavelkivskiy O.V. The effect of drip irrigation on water consumption, growth and development of a young apple orchard in the left-bank forest-steppe

The study determines the effect of drip irrigation regimes on water consumption rates, growth and development of apple trees of the fourth year of vegetation in the left-bank forest-steppe zone.

Key words: drip irrigation regime, water consumption, indices of growth and development of apple trees.

Alkhimov E.M., Shevchenko V.Yu. On the question of the importance of selection and breeding conducted on the Dniprovski experimental sturgeon hatchery (DESH)

The article substantiates the importance of conducting selection and breeding on the basis of the Dniprovski experimental sturgeon hatchery (DESH) due to a significant reduction in the number of sturgeon in the north-western part of the Black Sea.

Key words: sturgeon, selection, reproduction, selection and breeding.

Alkhimova Yu.M., Neznamov S.O., Sherman I.M. The influence of biotic environmental factors of ponds built on peaty and sandy soils on the efficiency of rearing carp fingerlings

The paper provides the results of studies of the hydrobiological regime of ponds built on peaty and sandy soils in connection with the cultivation of carp fingerlings.

Key words: peaty and sandy soil, phytoplankton, zooplankton, zoobenthos, fish productivity.

Neznamov S.O. The physical and chemical regime of ponds on peaty and sandy soils in connection with the cultivation of carp fingerlings

The article presents the results of studies of physical and chemical conditions of ponds built on peaty and sandy soils in connection with the cultivation of carp fingerlings.

Key words: peaty and sandy soil, water temperature, transparency, nutrients, fish productivity.

Olifirenko V.V., Rachkovsky A.V., Kozychar M.V. Biotesting of infusoria Tetrahymena pyriformis for the eco-toxicological assessment of water bodies

The biotests of infusoria Tetrahymena pyriformis were made in different categories of water bodies for the eco-toxicological assessment of the aquatic environment. The findings show that for obtaining more information on the level of environmental pollution and for estimating the toxicity of surface and waste water it is necessary to use infusoria biotests, which will help to identify potential hazards to hydrobionts, animal and human health.

Key words: biological testing, toxicity, test object.

Sabadash V.V., Petrovska S.A. The ecological component of investment attractiveness of an area and non-conflict nature management

The paper substantiates the necessity of including the ecological component in the evaluation of investment attractiveness of a region. It identifies five categories of characteristics for evaluating regional investment attractiveness: investment potential, investment climate, investment activity, investment risks and ecological component. The study develops a system of indicators for assessing investment attractiveness, which in contrast to the existing indicators includes the environmental component and environmental conflicts. It proposes a methodological approach to the evaluation of investment attractiveness of the region based on the integral index. This approach will contribute to a more effective use of investment resources, higher investment attractiveness, and non-conflict regional nature management.

Key words: ecological component, investment attractiveness, integral index, natural resources, technique, indicators, environmental conflict.

Sichko A.V. Legislative support for the regulatory framework of biodiversity and landscape protection

The article highlights the issues of legislative support for biodiversity and landscape protection. It considers effective mechanisms and models of environmental

protection, and outlines directions of activities in the area of biodiversity conservation in Ukraine for the creation of the national ecological network.

Keywords: landscapes, biodiversity, ecosystem, ecology, ecological network.

Strelchuk L.M. The current state and problems of shelter belt ecosystems of the Northern Black Sea area

On the example of the Kherson region, the paper examines the current state of shelterbelts of different purpose and the impact of agro-climatic and anthropogenic factors on their condition. It provides evidence of a poor general condition of protective forests in the northern Black Sea area.

Key words: shelterbelts, northern Black Sea area, problems.

Khomina V.Y. Agro-environmental aspects of fennelflower seed cultivation (Nigella sativa L.) in the southern part of Western Forest-Steppe

The paper presents the results of studying the expediency of growing seed fennelflower in the southern part of Western Forest-Steppe. The author proposes a better way of sowing, and establishes a dependence of seed yield on pre-sowing seed treatment and spraying of growing plants with biologically active agents.

Key words: seed fennelflower, seed, yield, growth regulators.

Antofiy N.M. Foreign economic interests of countries in the economic crisis

The paper shows that at different stages of the development of countries their national interests change under the influence of external and internal factors, therefore they need to be adjusted accordingly.

Key words: foreign economic interests, economic policy, economization of foreign policy.

Bezditko Yu.M. Evaluation factors of investment attractiveness of small businesses, and their characteristics

The paper identifies factors and indices that characterize investment attractiveness of small businesses considering specific features of their financial and economic activity.

Key words: small business, investment attractiveness, investment climate, financial condition.

Bugara O.M. Adopting approaches to sustainable development of wineries

The article substantiates theoretical, methodological and practical principles of ensuring sustainable and competitive development of wineries.

Key words: approaches, development, profit, winemaking, entrepreneurship, leadership, management.

Bulyuk O.V. Some features and trends of today's world market

The paper considers features and trends of the world market. It shows that in the era of globalization, there is an active intervention of the global market in the living space of each national economy.

Key words: international trade, world market, factors of production, world infrastructure.

Butenko T.V., Butenko V.V. Methodological principles of investment attractiveness of poultry farming

The article is devoted to the problems of determining the investment attractiveness of the agrarian sector, including poultry farming. The paper analyzes the definition of investment attractiveness of a company, industry, region and a country as a whole. It investigates the structure of the investment attractiveness of a company as an integrated indicator in the context of its economic security.

Key words: investment attractiveness, poultry farming, industry, region, enterprise, economic security.

Granovska L.M., Perevozova I.V. Substantiation of a public need for an institution of economic expertise

The paper focuses on the substantiation of a public need for an institute of economic expertise not only as a means of finding evidence during the investigation and trial, but as a specific form of financial and economic control, and as a method for evaluating the feasibility and economic effect of management decisions, project realization, etc.

Key words: economic expertise, expert research, expertise, society, management decision, financial control.

Ivanets O.O. Formation of the innovative potential of food industry development

The paper analyzes the innovative potential of Ukrainian food enterprises. It identifies major factors that hinder the innovative development and impede the process of introducing innovations in the food industry of the country.

Key words: food processing plants, production, innovation, innovative development potential.

Ignatenko M.M. Economic development and regulation of social processes in the agricultural sector of the economy

The article considers social processes and social and economic relations that accompany the development of the agricultural sector under current economic conditions. It describes basic regulation models, and proposes mechanisms and means for its improvement.

Key words: social processes, regulation, rural population, agricultural sphere.

Karas P.M., Zubenko V.V., Gryshyna L.O. Problems and prospects for effective management of commercial banks

The article considers the performance of banking institutions; the problems of improving the mechanisms of enhancing labor efficiency and assessment methods; crisis aspects as a consequence of the global financial crisis; banks' troubled relations with their customers. It analyzes credit activities of commercial banks by factorial components, and specifies the impact of credit risks on the performance of commercial banks that gives the opportunity to discover the real problems of effective management and find ways of solving these problems in practice.

Key words: commercial banks, banking institutions, management systems, banking law.

Kuzmenko O.B. The assessment of land use risks of agricultural enterprises

The article substantiates the assessment of the environmental component of land use risks of agricultural enterprises on the basis of a risk matrix that combines the

probability of occurrence of hazards and their consequences for the ecological state of land resources. The author proposes evaluating the economic component as a product of the probability versus losses due to hazards and land use processes; the damage is determined on the basis of indicators reflected in agrochemical certification.

Key words: evaluation, risks, land use, probability, ecological condition of land resources, losses.

Meshkova-Kravchenko N.V., Rachynska V.A. Improving cost management at an enterprise

The paper considers theoretical principles of cost management at an enterprise. It proposes measures to optimize costs of agricultural firms, improve the quality of wine, which will enhance the competitiveness of enterprises and the degree of satisfaction with consumer demand.

Key words: cost, cost management, cost optimization, innovation, product quality, competitiveness.

Moskalenko F.I. Arrangements for the audit of information systems in Ukraine

The paper investigates the main problems of the formation of the information infrastructure of audit that is an established system providing maintenance functions, monitoring, analysis, and documentation of all processes at the enterprise's information system.

It proposes using information systems audit for commercial and government organizations and enterprises in order to substantiate investment in IS, as well as for system integrators and IT companies in order to assess the impact of IS on the main business process and to expand the range of services offered.

Key words: audit, information technology, investment, information systems, monitoring, consulting, control of information technology recipients.

Orlenko O.V., Shevtsov V.D. Global trends in the development of the cereal and oil crop market in the context of food safety of Ukraine

The article discusses the state and prospects for the development of the national market of cereals and oil crops. It analyzes threats to food safety in the world, and outlines a set of measures to improve the efficiency of oil and cereal production in Ukraine.

Key words: oil and fat market, cereal market, export, production, food safety.

Sarakhman K.I. The main approaches to the definition of the concept "economic stability of an enterprise"

The paper considers and analyzes the main approaches to the definition of the category "the economic stability of a company". It proposes a new definition of the concept of the economic stability of an enterprise.

Key words: economic stability, enterprise, management, analysis, development, external threats, internal threats.

Siletska N.V., Beregova V.V. The strategy of innovative development of agricultural enterprises

The article describes the mechanism of forming the strategy of innovative development of agricultural enterprises, determines stages of the development of the strategy of innovative development of a company, and considers the types of innovative strategies.

Key words: strategy, strategy of innovative development, stages, agricultural enterprises.

Solovyov I.O., Fyodorova T.V. Enhancing the efficiency of personnel management at enterprises of the agricultural sector

The article is devoted to the problems of efficiency of the system of personnel management at enterprises of the agricultural sector and to ways of its enhancing.

Key words: personnel, human resource management system, employment, management efficiency, labor market.

Tanklevska N.S., Kopytina I.V. The state and prospects of attracting household savings in the economy of Ukraine

The paper makes an analysis of the current state of attracting household savings in the economy of Ukraine, and identifies prospects for their development. It proposes and substantiates an effective model for attracting household savings in the domestic economy.

Key words: savings, households, Ukraine's economy, model, activation, financial literacy.

Fomishyn S.V., Yarchenko Yu.V. On the definition of the essence and categorical apparatus of knowledge economy

The study shows that knowledge is a fundamental category of a new economy - knowledge economy. The definition of knowledge economy is based on the notion of knowledge as an economic category, while the production of knowledge is a source of economic growth.

Key words: knowledge economy, knowledge, scientific and technological revolution.

Ryaba O.I. The establishment of Moscow Society of agriculture in the context of the evolution of farming systems

The article highlights the history of the establishment and early years of a century-long period of activities of Moscow Society of Agriculture. It shows that it is in the 20-30s of the 19th century that Society determined its goals and objectives, organizational forms, and gained considerable credibility in scientific, production and government circles. The paper also features the contribution of Moscow Agricultural Society and its individual members to the development of systems of agriculture, agricultural education and science, research in plant cultivation.

Key words: Society, farming systems, Agricultural School, Butyrskiy farm, "Agricultural magazine", soil fertility, soil, grass cultivation.