

**Pisarenko V.N.** Basic directions of the integrated defence of plants in the conditions of organic agriculture // News of Poltava State Agrarian Academy. – 2008. – №4. – P.14-18.

Considered basic directions of defence of plants at organic agriculture. The fitosanitation role of above all requirements of technology of growing of agricultural cultures (structure of sowing, optimization of agroclimatic potential, crop rotation, bringing of organic fertilizers, till of soil), and also new approaches is lighted up, such as an effect of agrofitotsenologic during optimization of the fitosanitation being of sowing. The example of effective long-term introduction of the system of organic agriculture in the STATE of emergency is resulted «Agroekologiya» of the Shishatskogo district of the Poltava region.

**Opara N.N.** Saving of moisture in the conditions of global rise in a temperature // News of Poltava State Agrarian Academy. – 2008. – №4. – P.19-23.

A question about the reasons of droughts and complex of the measures on their warning, expounded by the known worldwide soil scientist V.V. Dokuchaev in a book «Our steppes before and now», rises. Coming its study from, basic paths over of saving of moisture in soil in the present terms of global rise in a temperature and deficit of moisture are brought, first when the value acquires creation of highly productive drought-resisting sorts and hybrids of agricultural cultures.

**Patyka N.V., Patyka V.F.** The influence of various agricultural systems on balance of the basic nutrients of podsolc soils // News of Poltava State Agrarian Academy. – 2008. – №4. – P.24-27.

The aspects of studying of basic nutrients balance of the podsolc soils at various agricultural systems are considered, which allow to supervise a fertility state in economy and to conduct working out of the receptions directed on increase of each hectare's efficiency of the earth. The example of practical calculation of balance of nutritious elements and humus in soil on a modern level of development of an agricultural production is shown.

**Pisarenko P.V., Protsko Ya.I.** Influence of antropogen factors on the social-ecological being of Poltava // News of Poltava State Agrarian Academy. – 2008. – №4. – P.28-32.

The separate aspects of intercommunication of antropogen factors and social-ecological consisting of are Examined Poltava on a modern stage. The analysis of basic stages of development of the European plan of actions of the program is given «Environment and health». Large attention is spared to the question of influencing of ecology on the organism of man, is special child's.

**Gemela G.P., Bagan A.V.** Estimation of high quality gene pool of winter wheat at locusami spare albumens // News of Poltava State Agrarian Academy. – 2008. – №4. – P.33-35.

The component composition of spare proteins in winter wheat sorts: gliadyns and glutenins has been studied. Polimorphism of spare proteins in studied sorts has been determined.

The genetical control of gliadyn and glutenin is made by twelve locuses, which located on chromosomes of the first and the sixth homologous groups. The frequency of allelic variants' manifestation according to gliadin- and glutenincoding locuses.

**Gemela G.P., Barat Yu.M.** Maintenance of heavy metal in soil and corn of fervent barley is dependency upon bringing of mineral fertilizers // News of Poltava State Agrarian Academy. – 2008. – №4. – P.36-38.

Toxic elements' content in soil in connection with applying fertilizers and their storage in grains of spring barley has been considered. The study of effectiveness of different fertilizers requires intensive attention to ecological conditions of agrocenosis and their protection from pollution. That is why during our investigation we have studied toxic elements' content is soil and grain. Applying fertilizers increased heavy metal content in soil and grain, though thin number was less than boundary-permitted concentrations.

**Gritsaenko Z.M., Pritulyak R.M.** Forming of assimilating surface of plants of winter tritikale with the use of herbicides of Primi and Puma super without biostimulyatorsv and in tank mixtures with the regulator of growth of plants by Biolan // News of Poltava State Agrarian Academy. – 2008. – №4. – P.39-41.

The results of researches of forming of area of sheet surface are Resulted by the plants of winter tritikale at application of herbicides of Primi (0,4-0,8 l/ga) and Puma super (0,8-1,4 l/ga), borne in separate from and in tank mixtures with the regulator of growth of plants by Biolan.

**Bilonozhko V.Ya.** Influence of ecological factors on growth and development of plants and productivity of buckwheat // News of Poltava State Agrarian Academy. – 2008. – №4. – P.42-45.

The results of researches of influence of ekologichesk factors on growth and development of plants and productivity of buckwheat, improving which is possible by the choice of terms of sowing depending on temperature terms, are resulted.

**Osokina N.M., Vasilishina O.V.** Organoleptichna estimation of quality of jam of cherry with replacement in compounding of raw material to fruit purees // News of Poltava State Agrarian Academy. – 2008. – №4. – P.46-49.

Organoleptichna estimation is resulted at development of jam of cherry with replacement in compounding of raw material of puree by a currant, red curraut, gooseberry, apple.

**Kutsenko O.M., Lyashenko V.V., Kalantay O.O.** Influence of predecessors on productivity of sowing of winter wheat in the conditions of left-bank forest-steppe // News of Poltava State Agrarian Academy. – 2008. – №4. – P.50-53.

As soybean's sown areas have been extended in Ukraine recently, possibility of using soybean as advanced crop for winter wheat has become very important. During our research the advantage of the fallow in comparison with other advanced crops as been established. Soybean as

compared to fallow essentially worsens productivity of winter wheat, but favorably affect on the separate elements of the yield's structure. Soybean's effectiveness in comparison with pea and annual plants during sowing the main crop in optimal terms has to be researched in details.

**Shevnikov N.Ya.** Principles of selection of components for the mixed sowing at growing of them on a green forage // News of Poltava State Agrarian Academy. – 2008. – №4. – P.54-60.

Productivity of the mixed sowing of soy and cereal cultures substantially depends on competition terms between the vegetable groupments. Competition to the certain degree is the necessary condition of the effective use of external environment although it and not always positively affects productivity of sowing. Cereal and bob cultures have a different structure of the root system which allows better to use natural fertility of soil. Bob cultures can fix nitrogen from an atmosphere, as a result green mass of mixtures contains more of albumen, than cereal cultures of the one king sowing.

**Pisarenko V.V.** Effective strategies of sale of vegetable products // News of Poltava State Agrarian Academy. – 2008. – №4. – P.61-64.

The basic features of the marketing control system by sale activity of enterprise in an vegetable – food subcomplex are considered. The specific of separate markets of sale, taking into account the requirements to quality of products, terms

of delivery, size of commodity party and, accordingly, pricing on products is explored. Wholesale vegetable markets, processing enterprises, rekreatsi organizations, enterprises of public food consumption, as possible users of vegetable products are described. The comparative analysis of possibilities of the use of various channels of sale is conducted, the criteria of optimum construction of the systems of sale are offered by agrarian enterprises

**Kharytonov M.M.** Ecological assessment of the biological conservation of the mining terraces of the Western Donbass // News of Poltava State Agrarian Academy. – 2008. – №4. – P.65-67.

Studied areas of the reclaimed mining terraces of the Western Donbass under self-overgrowing were characterized with low level of biodiversity. 44 plant species were found. A plant species spectrum is the similar for both reclaimed terraces. Regarding to obtained data reclaimed area with filled on mining terrace meadow black earth soil is available to grow crops. At the same time reclaimed area with filled on mining terrace red brown rock require improvement.

**Kolesnikov L.O., Oshkoderov V.A., Belyavskiy Yu.V.** Zhuzhelytsi (Coleoptera, Carabidae) on the permanent sowing of rye // News of Poltava State Agrarian Academy. – 2008. – №4. – P.68-73.

In article results of studying of influence of permanent crops of a rye on specific structure and seasonal dynamics of activity ground beetle are presented. Features of migrations ground beetle between crops of a rye and adjacent virgin territory are shown. It is noticed, that in seasonal

dynamics peak of number *P. cupreus* in supervision was in the beginning of May. It for a month before a similar indicator of the middle of the seventieth years of the last century. The revealed changes, in our opinion, are adaptive reaction of a kind on aridisation of a climate.

**Nevmyvako T.V.** Influence of predecessors on productivity and quality of corn of winter wheat // News of Poltava State Agrarian Academy. – 2008. – №4. – P.74-76.

Data about influencing of predecessors-het steam, pea and corn on a silage – on crop capacity and quality of winter wheat. This experience was conduct in 2007-2008 on agrofirma “Novoznamenske” Troitsky district Luhanska region in a one tipe of sowing-rotation on the onetipes soils – black earth and on the middle loamy soils in agroklimatic zone of steppe Ukraine. It was establish, that a very high harvest and the best quality of crops has winter wheat which was grown on the net steam. And the worse of predecessors in those conditions was corn on the silage; after pea has been received middle harvest and index quality crops of winter wheat.

**Batashova M.E, Onishchenko M.M.** Application of AFLP-technique of molecular analysis in genetics and breedings researches on winter wheat // News of Poltava State Agrarian Academy. – 2008. – №4. – P.77-81.

Analysis by 5 combinations of AFLP primers: MseI and EcoRI was carried out. In the results it was received 843 amplification fragments, 185 of them with size from 50 to 500 bp were polymorphic. High polymorphism of AFLP fragments was identified by C3 combination (MseI CTG / EcoRI ACA) – 34%. In general, primer combinations C3 (MseI CTG / EcoRI ACA) and C6 (MseI CTG / EcoRI AAG) are more informative and they better reflect the intraspecific differentiation of these winter wheat varieties and lines.

**Kharzchenko Ju.V., Chigrin A.V., Bondus R.O.** Experience of potato seed-cultural on the Ustimovka an experimental station of plant production // News of Poltava State Agrarian Academy. – 2008. – №4. – P.82-89.

It is lighted up the fifty five-year experience of organization of seed-cultural works with potato on the Ustimovka an experimental station of plant production (south part of the Ukraine Forest-steppe). Performances job of collective of experimental station and the personal deposit of scientists in development of potato seed-cultural on Poltava region are presented.

**Gavrilyanchik R.Yu., Stepas A.V.** Ecological monitoring of perspective territories for the inclusion in the protected area of the future Hotinskygo national natural park // News of Poltava State Agrarian Academy. – 2008. – №4. – P.90-91.

In bachelor graduation project we researched materials about the natural-protected fund in Kelmentsi district, specifically about natural-protected objects. We investigated the question about the necessity to make Khotyn National Natural park in future. In this project we researched flora, fauna and landscapes of these territories.

**Berezovskij M.D., Getja A.A., Vashchenko P.A., Korabelnikov K.G, Moroz O.H.** The automated modeling of selection indexes for an estimation of pigs // News

of Poltava State Agrarian Academy. – 2008. – №4. – P.92-94.

The new approach to construction of complex selection indexes is offered. Use of the computer program «The pedigree account and the analysis in pig breeding» (authors Korabelnikov K.G., Vashchenko P.A., Berezovskij M.D., Getja A.A.) allows to automate calculation of weight factors and construction of a complex selection index.

**Pelykh V.Hi, Chernishov I.V.** Influence of even nests on growth and development of piglings // News of Poltava State Agrarian Academy. – 2008. – №4. – P.95-97.

Influence of sign of even nests is trained on growth and development of piglings of breeds of a different direction of productivity. It is set that piglings which took place from the leveled nests were more viable and showed the best productive qualities.

**Birta G.A., Moroz O.G.** Biological full value of albumens of meat of pigs // News of Poltava State Agrarian Academy. – 2008. – №4. – P.98-100.

Results are represented of study of biological full value of albumens of meat of pigs of large white and mirgorodskoy breeds. The albumen are the most essential component part of meat, as main part of them is represented by valuable easilyadopting proteins which are used by the organism. Of man for construction of the fabrics. The albumen of meat provide development and exchange of matters in an organism, serve as material for construction of mews, fabrics and organs, formation of enzymes and hormones. The annual necessity of man in a valuable albumen makes 25 kg. The insufficient albuminous feed conduces to violation of development of brain, central nervous system, organs of incretion, system of circulation of blood.

**Trush V.M.** Complex estimation of productivity of bull-calves of different breeds on the return of food albumen, fat and of meat // News of Poltava State Agrarian Academy. – 2008. – №4. – P.101-103.

It shown the conversion of protein and energy of forage questions in relation to complex estimation of meat productivity of bull-calves of different breeds on the return of basic nutritives (food albumen and fat) and efficiency of conversion of protein and energy of forage in edible fabrics of carcass are examined in edible parts of carcass.

**Slinko V.G., Moroz O.H., Svirid O.V.** Prospects of using goat's milk in the feed // News of Poltava State Agrarian Academy. – 2008. – №4. – P.104-105.

The product value of goat's milk has been researched and the most progressive ways of using this product in food industry have been selected. The goats' has highest properties. It is the most similar to breast milk. During using goats' milk the level of profitability increases. The most optimal ways at using this product in food industry are dietetically and infantile foodstuff.

**Birta G.A., Burgu Y.G., Motorny Y.V.** Meaty qualities of pigs depending on effect produced by paratypical factors // News of Poltava State Agrarian Academy. – 2008. – №4. – P.106-110.

Genetic research made it possible to detect the degree of

heritability of economic characters as well as their correlation under certain conditions of pigs feeding and maintenance. Knowing and using these characters in selection and breeding work allows us to improve breeds in the desirable direction of productivity.

It is practically impossible to divide the characters into those which depend on inner factors or on environmental conditions only. But the degree of effect produced by all of them on formation of certain animal qualities in the process of development can be detected. That is particularly important as far as the characters conditioning productive qualities of animals are concerned.

The data of the research conducted confirm that when with the same live weight, Poltava meaty pigs, large white and mirgorod pigs had different slaughter and meaty qualities under the same feeding and maintenance conditions.

**Girya V.M.** Search of effective methods of estimation reproduktions fitness of hogs-executer // News of Poltava State Agrarian Academy. – 2008. – №4. – P.111-113.

The estimation of hogs-executer is conducted after the own productivity by the methods of index selection and modal class of distributing. Found out influence of hogs of different categories and classes of the rationed rejection on their productivity. It is set that the use of executer of category of improve or M+ of variants of distributing class is instrumental in the increase of many propagate of sows, amount and mass of piglings at a separation.

**Bondarenko E.M.** Role of Poltava society of agriculture in development of beekeeping of end XIX - to beginning of XX century // News of Poltava State Agrarian Academy. – 2008. – №4. – P.114-116.

On the basis of original sources the separate aspects of history of development of beekeeping are examined on Poltavschini of end XIX - to beginning of XX century. The role of Poltava society of agriculture lights up in particular in development of beekeeping.

Poltava society of agriculture was one of initiators and organizers of revival of industry of beekeeping. In his duties distribution of knowledge's from the conduct of beekeeping on Poltavschinia, edition of periodic professional magazine and booklet, establishment in the province of school of bee-keepers and creation of the experimental plant-breeding station and apiary was included with the purpose of study of biology of melliferous bee, that little large value in matters of improvement of beekeeping at the Poltava province.

**Izdepskiy V.I., Kulinich S.N., Kabluchka A.P.** Role of microscopic mushrooms in pathogeny of pododermatitov at cows // News of Poltava State Agrarian Academy. – 2008. – №4. – P.119-128.

Resulted theoretical ground of role of microscopic mushrooms in pathogeny of pododermatitov cattle and newly reshena problem of medical treatment of the given pathology. A life-giving environment for growing of microscopic mushrooms which have keratologic action is developed, and the methods of their diagnostics are treated (microscopy, cultivation, test on the perforation of hair and cuts of hoof horn, biochemical and hromatografical

researches of kultural liquid). The methods of medical treatment of pododermatitis are grounded and treated, complicated mikobiotoy with the use of the preparations of fungitsids action, made on the basis of 2-merkaptbenziazol and sulfate of copper. As a result of the conducted long-term researches considerable distribution of diseases in the area of finger at highly productive cows is set. It is proved, that ill-timed clearing of hoofs, deformations, protracted stall maintenance, unsatisfactory zoo hygienic requirements for cows and unbalanced of rations play in the favour of to accumulation in the damaged sole layer of microscopic mushrooms, which, showing keratolitic properties, destroy the keratin of hoofs.

**Berdnyk V.P., Scherbak V.I., Krawtchenko L.V.** Determining the meat variety using anatomical method // News of Poltava State Agrarian Academy. – 2008. – №4. – P.129-130.

The research paper contains anatomical method results used for determining the animal species through investigation of meat sample belonging to this animal. The atlas and axis have been removed from the piece of meat and compared with similar samples of backbones of a cow, a pig, and a dog exhibited at our Department Anatomy museum.

According to their structure peculiarities, the vertebrae analysed were similar only to the atlas and axis of a pig. Thus, the meats sample belonged to the animal of this species. An anatomic method declared one self enough Reliable at determination of type of meat it will used two-three bones of their parts.

**Yevstafyeva V.A.** Features of therapy of associative invasions of pigs // News of Poltava State Agrarian Academy. – 2008. – №4. – P.131-134.

Information of efficiency of different charts of treatment of parasitocenosis of pigs is presented. The results of researches rotined that at treatment of sarkoptosis, as a component of parasitocenosis for pigs, simultaneous intramuscular application of brovermektin and external treatment of ektosan came to light most effective (EE and IE=100,0%). Maximal ekstens-, intenseffektivty at treatment of associative invasions, the components of which were intestinal eelworms (askarises, trikhurises, ezofagostomes), simplest (eymeries, izospores, balan-tidies) and scabby pliers - sarkopteses, it is marked after simultaneous application of brovermektin and brovaseptol oral (EE=80,0-100,0%, IE=94,2-100,0%).

**Gorik A.V., Tolstopyatov R.V.** Arbitrary vibrations of the squared beam taking into account deplanatsii cuts under act of the harmonious concentrated force // News of Poltava State Agrarian Academy. – 2008. – №4. – P.135-137.

The law of arbitrary vibrations taking into account deformation of change of the composite heterogeneous squared beam on two joint supports under action of the point harmonious load attached in an arbitrary cut is set, that allows to define technical descriptions of swaying processes of such bruses.

**Gorik A.V., Kovalchuk S.B.** Clarification of parameters of deformation at the bend of the squared beams of het-

erogeneous structure // News of Poltava State Agrarian Academy. – 2008. – №4. – P.138-141.

Determining is got differential equalization and proper specified terms for the decision of transversal displacements at the bend of the squared beams of composite heterogeneous structure. The got equalization allows to take into account influencing of transversal deformativ displacements due to the constituent of transversal efforts and, thus, gives the specified results of decision of parameters of deformation of the composite squared beams. At sufficient exactness of the got results the decision of strict characteristic and bendings is enough simple, unlike more grounded, but at the same time and more difficult iteratsionish models of displacement of bend.

**Udovichenko H.A.** The basic parameters and features of disk instruments // News of Poltava State Agrarian Academy. – 2008. – №4. – P.142-147.

Summary the basic design data of disk instruments and perspective directions of research on increase of efficiency of their job induced. The operational tests disk of units are carried.

Use of such units. promote increase of productivity of work, reduction of quantity of technological operations, decrease of the cost price.

**Semyashkina A.A.** The periods of the sowing, productivity and adaptive ability sorts of oats in condition north steppe Ukraine // News of Poltava State Agrarian Academy. – 2008. – №4. – P.148-153.

The studied influence of the periods of the sowing, on productivity sorts of oats in condition north steppe Ukraine. The defining factor when shaping the productivities are a periods of the sowing and sorts. On level of the adaptive potential to period of the sowing of the under investigation sort belongs to middle plastic. They show top selection value in condition sufficient humidification under optimum period of the sowing and small reduce her it deterioration condition growing.

**Golobova O.O.** Level of simbiotical activity of vico and fitosanitarnoe being of sowing of vico-oat at different methods of basic till of soil in the conditions of left-bank forest-steppe of Ukraine // News of Poltava State Agrarian Academy. – 2008. – №4. – P.154-158.

It is studied the influence of different methods of basic till of soil on the level of simbioticheskoy azotfiktsatsii vetch. The results of researches of littered by weeds of sowing of vico-oat at long application of different methods of basic till of soil are expounded. It is set, that ordinary ploughing on a background the mineral fertilizers, and also numerical till on a background without the fertilizers which provided the highest maintenance of accessible forms of elements of feed, their more even distributing in an arable layer, and also more loose composition of soil, created the most favorable terms for the display of active simbiotical potential of vico.

**Ovcharuk O.V.** Fitosanitarny being of sowing of kidney bean of usual in the conditions of western forest-steppe of Ukraine // News of Poltava State Agrarian Academy. – 2008. – №4. – P.159-160.

Littered by weeds of sowing of Phaseolus vulgaris at dif-

ferent terms sowing is reflected. Specific composition of weeds is analysed. Negative influence of littered by weeds is set on the elements of the productivity of *Phaseolus vulgaris*. The degree of staggered of different grade of *Phaseolus vulgaris* is appraised by illnesses and damage wreckers.

**Dichenko O.Yu.** Dynamics of quantity and vermin of corn moth on the permanent sowing of corn // News of Poltava State Agrarian Academy. – 2008. – №4. – P.161-163.

In the process of researches the influence of ekologo-economic factors on the dynamics of quantity and vermin of corn moth in the conditions of growing of corn on the permanent sowing was studied. The supervisions after the change of level of harvest and littered were conducted also by weeds which are mainly result of increase of populated of plants this wrecker. In connection with the change of these indexes there is the necessity of study of development and distribution of corn moth.

**Kolesnik O.I.** Conversion of protein of forage in the food albumen of carcass of bull – calves of aberdin-angusskoy breed // News of Poltava State Agrarian Academy. – 2008. – №4. – P.164-166.

The results of study of conversion of protein of forage in the food albumen of carcass of bull-calves of aberdin-angusskoy breed of different genotypes are Expounded in the food albumen of carcass of bull-calves of aberdin-angusskoy breed of different genotypes. It is set, that the bull-calves of large genotype possess the best conversion ability to transform protein of forage in a food albumen. It is set, that at the bull-calves of shallow genotype, since 15-monthly ages (and large and combined into larger units genotypes - from 18-monthly), the process of gi-rootlogeniya increases that specifies on pointlessness of growing of animal these genotypes on meat.

**Dovgan'-Martinyuk M.B.** Biochemical indexes of blood to sapling of pigs, breeding got at different methods // News of Poltava State Agrarian Academy. – 2008. – №4. – P.167-169.

In the article the results of biochemical indexes of blood are resulted to the sapling got from the sows of large white breed in combination with hogs of breeds of large white, of mirgorod, ukrainian large white, landras and red-belt of the specialized line of meat pigs.

**Kyt A.A.** The bacterial landscape of the faeces from the rectums of suckling piglets after application of the solution of Poltava bishofit // News of Poltava State Agrarian Academy. – 2008. – №4. – P.170-174.

The bacteria of the digestive tract of suckling pigs are characterized by specificity and adaptability which depends on the condition of the organisms of the animals, their resistibility and adaptive properties.

In stressful situations resistivity decreases, the condition of disbacterioze of the alimentary canal develops, illness

appears which deepens the immune disbalance.

It is shown the investigation of the condition of the bacterial flora in the content of the faeces from the rectums of the suckling piglets with the purpose of revealing the influence of the solution of Poltava bishofit on their landscape by applicant of on skin.

Preservation of quantitative and qualitative descriptions of norm flora is observed against a background of the application of SPB.

**Galat M.V.** Mixed helminthoses of one-hoofed animals // News of Poltava State Agrarian Academy. – 2008. – №4. – P.175-176.

Information about spread of helminthosis among one-hoofed animals is presented, alive methods of diagnostics, also studying of efficient new antihelminthic helmisun.

**Oprya A.T.** Scientific and educate-organizational problem aspects of statistics // News of Poltava State Agrarian Academy. – 2008. – №4. – P.177-180.

The necessity of development of a new methodology and scientific researches with the target of creation of sensible economic mechanism of adjusting of socio-economic processes is shown.

**Dorohan V.K., Bublyk N.V.** The Problems of the Development of the Bank System of Ukraine // News of Poltava State Agrarian Academy. – 2008. – №4. – P.181-186.

A modern state of a bank sphere has been pointed out; the main problem aspects which keep back the development of the bank system of Ukraine have been revealed. The analysis and assessment of activity of the commercial banks have been done; the shortcomings have been found; ascertain line of measures of the increase of their reliability, financial stability and competitive ability at the domestic and international markets has been worked out. A great attention was paid to the improvement of the treaty relationships, to the necessity of the rise of the guaranties about the preservation of the deposit money of the physical person.

**Martynenko N.A., Chyrkov O.G., Denysyuk P.V., Lobchenko V.O.** The transcervical embryo transfer in the pig-breeding in XXI-th century: the problems and prospect // News of Poltava State Agrarian Academy. – 2008. – №4. – P.187-192.

The present-day status and the further development aspects of the transcervical embryo transfer in the pig-breeding are presented. A conclusion was drawn about limited it use in 2000-2008 years synchronous with the using of the surgical and minimal invasive surgery (endoscopy) in the innovation reproductive biotechnology. The cause exist in the low level of the implantation after transcervical embryo transfer, because of the researchers from the different world countries are working on the solve of this problem.