

## RESUME

### **Antonets O.H., Bolotova T. H. PRODUCTIVITY AND QUALITY CHARACTERISTICS OF WOOL OF YEARLING EWES OF TAURIAN TYPE OF EXPERIMENTAL FARM "ASCANIYSKE"**

Indexes of selection signs of yearling ewes of Taurian type with the combined productivity of experimental farm "Ascaniyske" in a section of lines are presented. The estimation of fleece on thinn and length of wool, and also on their of high quality composition is conducted. It is set that for addition to the selection herd of ewes it is necessary to use yearling ewes of different lines which combine the high indexes of living mass and clip of clean wool with the desirable type of fleece.

### **Besedin O. V. INFLUENCE OF AGE OF EWES OF TAURIAN TYPE ON THE OWN PRODUCTIVITY AND PRODUCTIVE QUALITIES OF THEIR DESCENDANTS**

Results of researches of influence of age of ewes of Taurian intrabreeding type of Ascanian Merino breed on their productivity and productive qualities of the descendants got from them are presented. It is set that the individuals of third - fifth age differ in for certain the best not only productive (washed wool cut, living mass) but also reproductive capabilities. The results of researches complement knowledge in obedience to physical-mechanical quality of wool, level of changeability of selection and reproductive signs of animals of different age and descendants got from them.

### **Horlov O. I., Ivina K. A., Mokeev I. O., Herasymenko T. H., Chichaeva O. P. USE OF GENETIC CORRELATIONS FOR ANALYSIS OF SELECTION SIGNS OF SHEEP OF DIFFERENT TYPES OF THE PRODUCTIVITY**

Application of private correlations for determination of genetic correlations is offered and the algorithm of their calculation, realized in the environment of databases is worked out. The comparative analysis of genetic and phenotypical correlations of selection signs of Tsigay and Crossbred sheep is conducted.

### **Horlov O. I., Chichaeva O. P. Ivina K. A., Mokeev I. O., Herasymenko T. H, FORMING OF CARDS OF BREEDING SHEEP FROM BASES OF DATA**

The algorithm of forming of electronic cards of breeding sheep is worked out on the bases of data of appraisal of animal different groups of the use for the row of years, in the surrounding of modern mean of programming of Visual FoxPro.

**Horlova O. D., Denysova V. D., Likhoded V. V. A TECHNOLOGICAL METHOD OF REDUCTION OF QUALITY LOSSES IN THE PROCESSES OF ROUGHING-OUT OF SHEEPSKINS, ASTRAKHANS, HIDES WITH THE USE OF NEW HARDWARES**

The results of researches of reduction of quality losses in the technological processes of roughing-out of sheepskins, astrakhans and lamb hides with the use of new hardware, namely - puller of sheepskins, hides and machine-tool for cleaning of scrawl hides MCH-2 are expounded.

**Horlova O.D., Yakovchuk V.S., Popov M.F. EXPEDIENCY OF THE INTENSIVE FATTENING TO THE YOUNG STOCK OF SHEEP OF WINTER AND SPRING TERM OF YEAN**

A comparative estimation of different terms of yeans of ewes is brought and also combined energy losing is certain on growing to the young stock of sheep on alternative technology of suckling period and at the further intensive fattening to 6,5-monthly age. It is set that the use for the intensive fattening of lambs of the April yeans assists the money cost cutting on 25,3 hrn./head only due to diminishing of cost of cornmeal at the open market.

**Hratylo O.D, Zharuk L.V., Smenov V.F., Smenova H.S. Mirza O.V. ECONOMIC EVALUATION OF EFFICIENCY PRODUCTION OF FORAGES AND THEIR INFLUENCE ON FORMING OF EXPENSES IN THE SHEEP BREEDING**

As a result of comparative estimation of economic efficiency of growing of green crops in the non irrigated conditions of steppe area of south of Ukraine for feeding of sheep their set which provides the receipt of optimum amount of valuable forages with a low prime price and will enable to define optimum expenses on maintenance of total number of livestock of sheep is offered.

**Hratilo A. D., Smenov V.F., Smenova H.S. INTRODUCTION OF WILD RYE PYCREUS AS A PASTURES CULTURE IN THE CONDITIONS OF SOUTH STEPPE OF UKRAINE**

The results of researches on introduction of wild rye pycreus as a component of grass stand of pastures conveyer in the conditions of south of Ukraine are presented. Information of supervisions accounts and analyses on determination of biotmorphological features, productivity, nourishing value of green forage and seminal properties of introducent is resulted.

### **Efremov D. V. METABOLIC ACTION ADDRESS PREMIX IN AN ORGANISM OF THE REPAIR YOUNG EWES**

Influence address mineral is investigated and vitamino-mineral premix on a current of metabolic processes at the repair young ewes. It is established that feeding above the listed fodder additives as a part of mixed fodders positively influences on metabolic and mastering of nutrients of diets, an exchange of nitrogen, mineral elements, biochemical and hematologic blood indicators that as a whole raises efficiency and improves the general condition of animals.

### **Zhulinskay O. S., Yakovchuk V. C. APPLICATION OF IMMUNOSTIMULATOR PREPARATION "TYMALIN" AT GROWING OF LAMBS**

Results of application of immunostimulator preparation "Tymalin" at growing of lambs of Ascanian Merino breed were presented. Positive influence of immunostimulator on safety and productivity of lambs in the suckling period was set. High biological and economic efficiency of its application on lambs 10-13 - daily age is educed.

### **Zaruba K. V., Zharuk P. H. SHEEP BREEDING OF NEW ZEALAND**

The information of sheep breeding of New Zealand which is a world leader on a production and export of meat of sheep, basic progress of industry trends the last years, dynamics of quantity of population, production and export of wool volumes, lamb and mutton on years, and also costs of their sale and basic markets of realization is presented. The prognosis of basic indexes of industry on a season 2009/10 is presented.

### **Ivina-Maliarenko O.S. REPETITION OF BASIC PARAMETERS OF THE PRODUCTIVITY OF EWES OF TAURIAN TYPE OF ASCANIAN MERINO BREED WITH DIFFERENT DENSITY OF WOOLS**

The analysis of repetition of basic parameters of the productivity of ewes of Taurian type of Ascanian Merino breed with different density of wool is conducted. It has been found that to the Merino ewes, except for the separate age-related periods, the middle and high degree of constancy of structure of phonotypical variety of basic selection signs ( $r^2 = 0,223-0,562$ ) is peculiar.

### **Iovenko V. M. GENETIC MARKERS OF TRASFERRING SYSTEM IN DOMESTIC GENE POOLS OF SHEEP IN THE PROCESS OF MICROEVOLUTION**

The level of polymorphism of the system of transferring in

population of sheep of south region of Ukraine in the wide range of time of their breeding is investigated. The features of this genetic phenomenon in the gene pools of sheep of different direction of the productivity are shown.

#### **Kudryk N. A. INTERIOR FEATURES OF RAM LAMBS OF PROLIFICACY TYPE OF ASCANIAN KARAKUL BREEDS**

Results of researches in relation to the study of dynamics of development of internals for ram lambs type of Ascanian Karakul of breed at birth 4-, 7- and 9-monthly age are brought. It is set that the greatest intensity of increase of mass of internals takes place in a period of age to 4-monthly age. For forming of genotypes with high genetic potential of the productivity most responsible is an embryonic and suckling period.

#### **Lobachova I. V., Bolotov Yu. I., Julinska O. S., Mykhailova I. G. INFLUENCE OF ADDITION OF OXYTOCIN TO CRYOPROTECTIVE SOLUTION ON PHYSIOLOGICAL AND MORPHOLOGICAL PARAMETERS OF RAM SPERM**

Addition of oxytocin in cryoprotective solution to final concentration 0,66 or 1,0 IO/1 ml of the diluted sperm did not affected on physiological and morphological parameters of ram sperms, and also their ability to deep freezing. It is not revealed positive effect of addition of oxytocin on increase of fertilizing capacity of the thawed sperm at insemination of the ewes subjected to hormonal stimulation of heat in summer and autumn months.

#### **Lobachova I. V., Julinska O. S. EFFICIENCY OF HEAT STIMULATION AT EWES BY INTRAVAGINAL SPONGES IMPREGNATED WITH CRONOLONE OUT OF A SEXUAL SEASON**

Using of vaginal sponges with cronolone (30 mg) for a period of 13-14 days has caused display of signs of heat at 46 % Ascanian Merino ewes in late anoestrual period (July). 5,56 % of animals have revealed signs of oestrus for the first day after sponge removal, 83,33 % - at the second, 5,56 % - at the third and 5,56 % - at the fourth. Duration of heat no more 24 hours is noted at 72,2 % of reacted animals. One of the 18 inseminated animals bore in appropriate time. Researches have shown the necessity of the further improvement of methods of heat stimulation at sheep in late anoestrual period.

#### **Pol'ska P. I., Kalashchuk H. P. SELECTION OF ASCANIAN MEET-WOOL EWES AFTER THE MILK PRODUCTIVITY**

The results of researches of the milk productivity of Ascanian Crossbred and Ascanian Black-Headed ewes at their selection and

perfection by the method of determination of this major selection breeding sign worked out by us are presented.

**Pol'ska P. I., Kalashchuk H. P., Atanovska-Masliuk O. Y., Stapay P. V., Paraniak N. P., Strohush N. S., Kochetov S. V. INFLUENCE OF LOW LEVEL OF FEEDING ON THE PRODUCTIVITY AND CHEMICAL INDEXES OF WOOL AND WOOL GREASE OF ASCANIAN MEET-WOOL BREED OF SHEEP**

The productivity, fortress of woolen fibres, chemical indexes of wool and wool grease of intensive types of Ascanian Meet-Wool sheep on condition of low level of feeding is set. The results of researches show that Ascanian Crossbred and Ascanian Black-Headed genotypes, showing considerable adaptive ability, provide forming of the high woolen productivity with the satisfactory parameters of basic physical and chemical descriptions of crossbred wool with the high features of wool grease at optimal correlation of fat (wax) and grease.

**Popov M. F., Horlova O. D., Yakovchuk V. S. QUANTITATIVE AND QUALITATIVE LOSSES AT REPRODUCTION OF SHEEP AND TECHNOLOGICAL METHOD OF THEIR REDUCTION**

Quantitative and quality losses at reproduction of sheep in a pregnancy period: repeated mating, embryonic death, abortions, stillborn, hypotrophy and poor born lambs, death of them in the first twenty-four hours after year, forced slaughter and deaths of ewes from a ketosis in the last month of pregnancy are studied. The technological method of the use to ewes in a suckling period of salts of microelements of CoSO<sub>4</sub>, ZnSO<sub>4</sub>, MnSO<sub>4</sub>, CuSO<sub>4</sub> and KI in mixtures with kitchen salt and intramuscular introduction of Oxytocinum, 10% solution of ASDf2 on trivitan and ichglucovit, which positively influenced on reduction of losses in the processes of reproduction is worked out.

**Svistula M. M., Skrepets V. I., Demens'ka N. M., Horb S. V., Efremov D. V. INFLUENS OF FEEDING RAPE CAKES ON LEVEL OF THE PRODUCTIVITY OF LACTATION OF EWES AND ON DEVELOPMENT OF THEIR PROGENY**

Possibility of partial and complete replacement of sunflower cakes (by mass) on rape in the rations of ewes is studied. Application of this forage product allows to reduce in a price rations, support metabolic processes up-to-the-mark, promote milking capacity of ewes on 7,7-12,3%, intensity of growth of lambs on 2,6% and sheared wools in the washed fiber on 2,8-6,0%.

**Skrepets V. I., Svistula M. M., Demens'ka N. M., Horb S. V., Efremov D. V. THE COMPARATIVE ESTIMATION OF INFLUENCE OF DIFFERENT STRUCTURE OF RATIONS ON THE LEVEL OF THE PRODUCTIVITY OF REPLACEMENT YOUNG EWES**

The results of estimation of influence of feeding of different after the type of feeding rations on the quantitative and high-quality indexes of the productivity repair bright flow of processes of metabolism in their organism are expounded . It is set that complete replacement in the structure of ration of silo corn on a food value on hay a cereal-bob in the increase of digestibility and digestion of nutritious that is positively reflected at the level of productive qualities of animals is promote.

**Stapay P. V., Paranyak N. M., Havrylyak V. V., Kochetov P. V., Strohush N. S., Iovenko V. M. , Serbina V. A. FEATURES OF LIPID AND PROTEIN COMPOSITION OF MUSCULARITY TISSUE OF SHEEP OF TAURIAN TYPE OF ASCANIAN MERINO BREED OF SHEEP OF DIFFERENT CONSTITUTION TYPES**

Features biochemical, in particular lipid and protein, composition of muscularity tissue of sheep of Taurian type of Ascanian Merino breed depending on the type of build are studied. It is certain that the best biological value has meat of animals of rough type, that is conditioned by high maintenance of general proteins due to faction of  $\gamma$ -globulins, optimum amount of general lipids, most of phospholipides and the least - sterols factions.

**Sukharlyov V.O. DIFFERENTIATED FEEDING OF EWES DEPENDING ON THEIR FERTILITY**

The analysis of power level (PL) of existent norms of feeding of ewes of some breeds of different directions of the productivity is given in the period of progeny and their disparity is shown for Romanovskikh sheep. A base of necessity of the differentiated feeding of multiparous ewes and methods of calculation of norms of feeding depending on the amount of embryos in the period of progeny is presented. The additional level of the additional fertilizing of ewes of mixed fodder on the period of progeny, coming from the amount of their embryos is offered. The obligatory inspection of ewes is foreseen in the period of progeny, by means of devices of ultrasonic, for determination of polyploidy and amounts of embryos which develop.

**Chernomyz T. A., Lesyk O. B., Pokhyvka M. V. IMPROVEMENT OF BUKOVINA TYPE OF ASCANIAN MEET WOOL BREED OF SHEEP WITH CROSSBRED WOOL**

The results of selection of sheep at the improvement of the Bukovina type of Ascanian Meet Wool breed with crossbred wool are presented.

**Burnatnyy S. V. GENE POOL HERD COWS EVALUATION OF LEBEDYNSKAJA BREED OF JSC «SAD» BY THE INDICES OF QUALITY AND CHEESE SUITABILITY DEPENDING ON LINE INHERITANCE**

The data received from gene pool herd cows evaluation of Lebedynskaja Breed by the indices of milk efficiency depending on line inheritance are presented. Correlation of main milk components, optimal sizes of which provide high level of its cheese suitability has been defined.

**Voronenko V. I., Buyukly H. I., Buyukly M. I., Taranenko S. V., Kobzar R. O. TAURIAN ZONAL TYPE OF UKRAINIAN RED DAIRY CATTLE BREED**

The animals of Taurian of zonal type of the Ukrainian Red Dairy cattle breed are characterized by high genetic potential of the productivity, have a harmonic build of dairy type and satisfactory level of reproduction. Yield of milk of cows of selection breeding heart for the best lactation is made by 5541 kg of milk by fat of 3,87%, 214 kg of milk fat. After a genealogical structure a cattle population concerns to 24 lines and family groups the animals of which can render substantial influence on genetic progress of the created type.

**Boronenko V. I., Hazarenko V. H., Omel'chenko L. O., Rukavnikova H. I. ESTIMATION OF STRUCTURE OF ALLELE POOL OF CATTLE OF SOUTH MEAT BREED**

The results of researches as evaluated by immunogenetic features on alleles of the system of EAV of Taurian intrabreed and two structural in types of cattle of South Meat breed are resulted. With the use of row of methods of genetic analysis certain level of immunogenetic differentiation and likeness, and also dynamic of the gene structure created of selection formings.

**Voronenko V. I., Omelchnko L. O., Fursa N. M., Makarchuk R. M. GENEALOGICAL STRUCTURE OF TAURIAN TYPE OF SOUTH MEAT BREED OF CATTLE**

Materials of genealogical structure of Taurian type of South Meat breed, presented by 3 plant lines and 25 plant families, ratified in 2009 (order of Minister of Agrarian Policy of Ukraine and Ukrainian Academy of Agrarian Sciences from January, 16 2009 №26/03 "About ratification of South Meat Breed of cattle and its intrabreeding selection forming") are presented. Materials about the productivity of plant lines of bulls and families of cows of Taurian type are brought.

**Voronenko V. I., Omelchenko L. O., Fursa N. M., Makarchuk R. M., Naydyonova V. A., Dubynskyi O.L., Noskova A.M. GENETIC RESOURCES OF FORMING OF INDUSTRY OF MEET CATTLE BREEDING IN SOUTH REGION OF UKRAINE**

Description of innovative product of selection - South Meet Breed of cattle, its scientific and technical level by comparison to other breeds of meet cattle of domestic and foreign selection is given. Materials about efficiency of the use of gene pool of breed for creation of herds of hybrid cattle and brunch of Meat Cattle Breeding are presented.

**Ilyashenko G. D. AGE DYNAMICS OF MILK CATTLE YOUNGSTERS LIVE WEIGHT SEXUAL DIMORPHISM**

In science-and-husbandry experiment on 18 heifers and 18 bulls of Ukrainian Red and Black-and-White Milk breeds the age dynamics of live weight sexual dimorphism during the first year of postnatal growth was studied. It was stated, that degree of the sexual dimorphism manifestation wavelike grows and essentially strengthens at six – nine month age at the beginning of sexual maturation intensive processes.

**Makarchuk R. M. INTENSITY GROWTH OF BULL-CALVES DEPENDING ON DURATION OF THEIR EMBRYONIC DEVELOPMENT**

The results of experimental researches on the study of influence of duration of uterine development on intensity of forming in early ontogenesis of bull-calves of different genotypes of South type of the Ukrainian Black Spotted Milk breed in breeding farm SEEF "Askaniyskoe" Kakhovka district Kherson province are resulted. It is set, that duration of embryonic development predetermines different intensity of growth of animals.

**Omelchenko L. O., Dubynskyi O. L. PRODUCTIVITY OF ANIMALS OF TAURIAN TYPE OF SOUTH MEAT BREED OF CATTLE AT DIFFERENT METHODS OF SELECTION**

Results about the inheritance of intensity and energy of height of bulls of Taurian type of South Meat Breed at a homogeneous and heterogeneous selection are expounded. A homogeneous selection provides high homogeneity of population, receipt of highly productive descendants. Absence of reliable difference of signs at a homogeneous and heterogeneous selection by difficult polyhybridic character inheritance of these signs at triple and tetra hybrid is conditioned.

**Herasimenko V. V. SOME FEATURES INHERITANCES OF ALLELIC GENES GENETIC SYSTEMS OF BLOOD TYPES FOR PIGS OF ASCANIAN SELECTION**

Results of comparative study of features of inheritance of alleles of the genetic systems of blood types in different population of pigs



Ukrainian Steppe White and Ukrainian Steppe Spotted of breeds are presented. Possible reasons and prospects of the practical use of the reliable deviation educed on occasion from the expected distribution of descendants with alternative paternal alleles on the separate genetic systems are analyzed .

### **Horb S. V. FORAGE ADDITION ON THE BASIS OF GIDROBIONITES IN FEEDING OF SOWS**

Possibility of including of protein-mineral mussel of forage addition in the rations of sows and its influence is investigational on the productivity and state of health of animals is studied . It is set that at the use of new forage product in feeding of sows increased their reproduction qualities, namely, heavy furrowing on 7,2-10,6%, milking capacity - 9-14,5% and improved on a 5,6-8,8% intensity of growth of suckling piglets.

### **Ivin A. M. ESTIMATION OF BREEDING-BOARS ON THE TYPES OF INHERITANCE**

Results of estimation of boars in the conditions of breeding farm Society of Limited Responsibility "Prod-Allians" Chaplynka region Kherson province with the use of method of determination of their pedigree value by means of approbation in similar and contrasting mating with accordingly higher ( $M^+$ ) and below ( $M^-$ ) the average level of the productivity are shown. It is established that at use of this method it is expedient to conduct the estimation of pedigree value of boars taking into account the type of inheritance of signs their descendants, determination of prepotency of boars from their deep differentiation and use most valuable from them.

### **Masliuk A. M., Dudka O. I. CORRELATION INTERCOMMUNICATION OF INDEXES OF THE PRODUCTIVITY OF THE UKRAINIAN STEPPE WHITE BREED OF PIGS**

A level and character of intercommunication between the reproductive signs of sows Ukrainian Steppe White generate the pigs of breeding farm "Ascania Nova" for the last seventeen years of selection in the section of lines and families is studied. It is set that the coefficients of correlation between the reproductive signs of sows after a level and direction of connection differ. By a size in the lines their scope is small, and in families both on a selection and within the lines which they behave to, it considerably wider at all correlating pairs.

**Svistula M. M., Skrepets V. I., Gorb S. V., Efremov D. V.  
EFFICIENCY OF THE USE OF THE MIXED FODDERS WITH A  
SORGHUM FOR THE SAPLING OF PIGS ON FATTENING**

Possibility of increase of part the sorghum of new perspective variety of the Ukrainian selection is experimentally grounded in the rations of sapling of pigs on fattening. It is set that leading to in composition the mixed foddors of maintenance of sorghum of sort of «Krymbel» to 50% on mass, in place of barley, instrumental in an increase on 5% intensities of growth of animals and reduction of prices on 8,2% costs of forages for them.

**Shulha Yu. I., Masliuk A.N. CREATION OF NEW LINE OF THE  
UKRAINIAN STEPPE WHITE BREED WITH ENHANCEABLE MEAT  
QUALITIES**

On the basis of results of estimation of height and development, fattening and meat quality of descendants of stud boar, got by means of "flowing of blood" of large White breed (English selection), the founder of new line in the Ukrainian Steppe White breed with the improved meat quality, the descendants of which on basic selection breeding signs exceeded analogues is certain.

**Volgina N.V., Katsy G.D. FEATURES OF SKIN AND ITS  
DERIVATIVE AT THE DIFFERENT HORSE BREEDS DEPENDING  
ON TYPE OF CONSTITUTION**

Comparison of horse by the Russian trotting, Novo-Alexandrovsckaya draft horse breed and Thoroughbred up-river breeds of separate types constitution on the thickness of skin on different areas of body and extremities and thickness of hoof horn is conducted. Multiplied the thickness of horse skin and thickness of hoof horn from tender to rough constitution is set. The horses of strong type constitution are characterized by middle parameter. There is the consolidation of hoof horn on back limb of horse as compared to frontal is observed.

**J. Hurko. Morphological indexes of blood at the minks of  
different coloured types.**

The results of hematological researches at the minks of different coloured types and age are represented. Age indexes of hemoglobin, erythrocytes, leucocytes and the morphological indexes of leukocytes formulas minks of authentically change within bounds of physiological norm.