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619:616:636.4-053.2+636:611

« . . . , . . . »,
, E-mail: pashinak@mail.ru

E. Kuryatova, M. Pashin, I. Shulga
FSEI HTP «Far East state agrarian university», Blagoveshensk

HISTOMORPHOLOGICAL AND HISTOCHEMICAL CHARACTERISTIC OF DIGESTION ORGANS OF PIGLETS AT GASTROENTERITIS NON-CONTAGIOUS ETIOLOGY

Key words: gastroenteritis, disturbance of exchange of proteins and carbohydrates, mucopolysaccharides, digestion organs of piglets, histomorphological characteristic.

Pathological changes at gastroenteritis of piglets took place in all departments and organs of digestive system. These changes are found out as dystrophy, desquamation of cells, destructive changes of architectonics, disorders in blood circulation. Disorder of nucleic acids exchange that was connected to damaging of synthesis of protein and changes in mucus and mucopolysaccharide production system was revealed. Secretion of mucus in the beginning of illness was increased, carrying out its protective functions, making active also digestive enzyme, but during the further development of illness secretion of mucus and mucopolysaccharides decreased.

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E. Kuryatova, M. Pashin, A. Saygiraev
FSEI HTP «Far East state agrarian university», Blagoveshensk

USING OF PREPARATION «MALAVIT» IN COMPLEX TREATMENT OF SHARP INDIGESTION DISORDES AT PIGLETS

Key words: indigestion disorders, gastroenteritis, pigs, malavit, complex treatment

Application of a homeopathic preparation «Malavit» for treatment of acute gastroenteritis of pigs promotes easier disease and fast process of convalescence with a minimum quantity of animal loss. During the treatment in observed group 6 pigs died, in control - 14 pigs died.

591.446-18

E- mail: sankaar@mail.ru

DIPHYLLOBOTHRIUM DENDRITICUM(CESTODA: PSEUDOPHYLLIDAE)

I. Kutyrev

Institut of general and experimental biology of the Siberian Branch of the Russian
Academy of sciences, Ulan-Ude

**CHANGES OF HAMSTER'S MESENTERIC LYMPH NODES CELL COMPOSITION
DURING EXPERIMENTAL INVASION WITH *DIPHYLLOBOTHRIUM DENDRITICUM*
(CESTODA: PSEUDOPHYLLIDAE)**

Key words: hamster, mesenteric lymph nodes, cell composition, gull tapeworm, invasion.

Cell immunity strengthening and humoral immunity inhibition occur in hamsters mesenteric lymph nodes during invasion of gull tapeworm in small intestine.

641.3:613.28

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D. Ulzytueva, S. Lebedeva
FSEI HPT “East-Siberian State University of Technology”, Ulan-Ude

EFFICIENCY AND SAFETY ESTIMATION OF PEPTIDE BIOREGULATOR RECEIVED FROM PIG THYMUS

Key words: peptide bioregulator, secondary immune scarce conditions.

This work is devoted studying efficiency and safety of peptide bioregulator received from pig thymus. In vitro it is established it immunomodulating action on immune system. Biological safety of bioregulator on microbiological and toxicological indicators has been confirmed.

602.1:591.144.4

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A. Tsyrenzhapova, S. Lebedeva
FSEI HPT “East-Siberian State University of Technology”, Ulan-Ude

MODIFICATION OF THE WAY OF EXTRACTION OF THE BIOREGULATOR FROM PIG'S SPLEEN WITH THE USE OF ULTROSONIC WAVES

Key words: peptide bioregulator, biologically active substances.

This work is devoted to the study of intensification extraction of the bioregulator from pig's spleen with the use of ultrasonic waves. The effectiveness of the bioregulator in vitro system and it's biological safety was proved.

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 , E-mail: shvetcov.84@mail.ru

(vulpes vulpes)

S. Shvetsov, N. Trush
FSEI HTP «Far East state agrarian university», Blagoveshensk

THE ENVIRONMENTAL SPECULIARITIES OF VULPES UNDER CONDITIONS OF THE AMUR REGION

Key words: hunting animals, vulpes, dimorphism, ecology, specific diversity.

Protection of the resources of the animal world is an important and urgent problem today. It is directed to supporting of the optimal level of population of valuable hunting animals and to preserving of the whole specific diversity of animals. Ecological-morphological investigations are significant for restoring and increasing of the population of hunting animals. Ecological-morphological investigations require the analysis of the whole line of external influences on the organism. That's why the analysis of the environmental factors which influence on the morphometric marks of wild animals, have a practical significance.

*The purpose of this work is to study the influence of the environment on the morphometric marks of an ordinary fox (*vulpes vulpes*) of the Amur Region. The ordinary fox (*vulpes vulpes*) in view of biological peculiarities differs from other species of dogs family with great life activity. It is connected with the conditions of its life activity, with the peculiarities of feeding, nesting and protecting properties of areas, which are typical for its inhabitations. The most favourable region for the fox is Zavitskiy district. Compared to other districts of the Region the territory contains the minimum of harmful factors for antinatural regulation of the population of the animal.*

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L. Khibkhenov, E. Aldarova

FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

**COMPARATIVE ANATOMY AND MORPHOMETRIC SIGNATURES OF GENITAL
ORGANS OF DOMESTIC YAK'S, GOAT'S AND BUUBAI SHEEP'S FEMALES**

Key words: yak, goat's and "buubai" sheep's ovaries, oviducts and uterus.

In this article we consider findings of investigation of comparative anatomy and morphometric signatures of domestic yak's, goat's and "buubai" sheep's ovaries, oviducts and uterus. Investigated organs have specific characteristics, common for ruminant.

631.445:631.6.02 (571.54)

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e-mail: 180376@mail.ru
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V. Bohiev¹, A. Batudaev¹, A. Ulanov¹, A. Idamzhapov²

¹ FSEI HTP «Buryat State Academy of Agriculture named after V. Philippov», Ulan-Ude

² Buryat Agrarian College named after M. Erbanov, Ulan-Ude

THE INFLUENCE ON STABILITY OF BARE FALLOW FROM WIND EROSION BY NEW AGROTECHNIC METHODS OF PROTECTION OF DARK BROWN SOIL HARACTERISTICS OF WEST ZABAICAL LAND

Key words: the pure steam, the combined processing of soil, wind erosion, the soil crust, a special seeder, a cultivator-vychesyvatel, micromodular structure, humus, nitrogen.

We studied new agrotechnic methods of protection of dark brown mealy carbonate soils with bare fallow experiment in the bread grain rotation cycle. Making of soil crust autumn trundling with smooth and filled with water rollers and extracting plant remainders to the surface of the ground by special cultivators considerably resist the bare Fallow from wind erosion in autumn, winter and spring periods and avert of taking away of small grained soil and keep its agronomic characteristics at initial level.

631.461 (571.54)

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E-mail: ubugunova57@mail.ru

V. Ubugunova^{1,2}, U. Rupishev², V. Ubugunov², B. Baldanov²

¹ FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

² Institut of general and experimental biology of the Siberian Branch of the Russian Academy of sciences, Ulan-Ude

SPATIAL DIFFERENTIATION OF SOIL-VEGETATION COVER OF IVOLGA

Key words: diversity, differentiation, ecosystem, soil, vegetation, Ivolga river basin.

Diversity and patterns of spatial differentiation of soil-vegetation cover of Ivolga river basin were carried out. Map of ecosystem of central part of Ivolga hollow was composed. Separation of 7 ecosystem types was proved. It was observed, that territory heterogeneity was connected with complex of factors: orography, lithology, hydrology, climate, frozen conditions of ground and neotectonic processes.

633.2.3.03 (212.6)

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A. Dorjiev

State Scientific center «Buryat scientific research institute of agriculture»
Russian Academy of Agrarian Sciences, Ulan-Ude

**EFFICIENCY OF RECEPTIONS OF IMPROVEMENT OF STEPPE PASTURES
OF THE WESTERN TRANSBAIKALIA**

Key words: pastures, herbage, a forage, fertilizers, biochemical structure, fodder units.

There are shown results of research on improvement steppe pastures in Western Transbaikalia.

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A. Emeljanov

State Scientific center «Buryat scientific research institute of agriculture»
Russian Academy of Agrarian Sciences, Ulan-Ude

OIL RADISH – THE IMPORTANT RESERVE OF INCREASE OF PROTEIN NUTRITIOUSNESS OF FORAGES

Key words: a radish olive, test by kinds, the agricultural technician, a forage reserve, the mixed crops, weight.

Expansion of a set of forage crops at the expense of a radish olive and development agricultural technicians of its cultivation is an effective processing method of reduction of deficiency digestible a protein in a diet of agricultural animals of a forage reserve.

633.11 «321» : 631.526.32:551.58 (571.53)

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I. Krutikov, Sh. Husnidinov, T. Kudryautsev

FSEI HPT «Irkutsk State Academy of Agriculture», Irkutsk

THE EVALUATION OF ABIOTIC CONDITION OF VEGETATIVE PERIOD AT HIGH – QUALITY DIVISION INTO DISTRICTS OF SPRING WHEAT IN PRE – BAIKAL AREA

Key words: abiotic condition, vegetative period, high-quality sort, division into districts.

In article are considers the influence of abiotic condition on length vegetal period of zoned grades of spring wheat on various ecological zones in Irkutsk region.

635.922 (075.8)

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T. Todorhoeva

FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

FORMING OF LAWN HERBAGE LOCAL POACEAE GRASSES

Key words: cespitose coverings, lawns herbages, mix from grasses, formation of herbages, mytlik meadow, porridge the red.

Ability of forming of lawn herbage local poaceae grasses by the sorts of domestic selection. The complex estimation by kinds of grasses and seed grassland is given. Advantages of the use seed grassland and their stability to stresses-factors are revealed.

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Y. Friesen, V. Vasilevski
FSEI HPT "Omsk State University of Agriculture", Omsk

FEATURES FORMATIONS AND FILLINGS OF GRAINS GRADES SUMMER FIRM SUMMER DEPENDING ON TERM OF CROP IN SOUTHERN WOODSTEPPE OF WESTERN SIBERIA

Key words: crop, term of crop, education of a grain, formation – filling, meteorological factors.

The period of growth and development is most important in growth and development of grain cultures. The knowledge of features of process education of a grain at bread allows correctly to determine phases maturity of a grain, to establish dynamics of receipt of plastic substances in a grain, scientifically to prove terms of a beginning harvest of bread at their separate harvest. We have established, that the most intensive accumulation of dry substance by a grain summer firm harvest is marked during it filling. The termination of accumulation of dry substance in a grain was marked considerably after approach of the maximal meanings of weight 1000 crude grains (on the average for 8 day). We establish dependences of process education of a grain from the meteorological factors. So, at increase of daily average temperature of air the intensity of accumulation by a grain of plastic substances was increased. At reduction hydrothermal factor the intensity of accumulation of plastic substances decreased also. The dropped out less deposits, the more intensively grain accumulates plastic substances. The meteorological factors rendered stronger influence on intensity of accumulation of plastic substances in a grain in the periods filling and formation – filling.

595.762

-mail: khobrakova77@mail.ru

***CURTONOTUS FODINAE* (MANNERHEIM, 1825)
(COLEOPTERA, CARABIDAE)**

: *Curtonotus fodinae*,

Curtonotus fodinae

L. Khobrakova

Institut of general and experimental biology of the Siberian Branch of the Russian
Academy of sciences, Ulan-Ude

**THE POPULATION STRUCTURE OF *CURTONOTUS FODINAE* (MANNERHEIM,
1825) (COLEOPTERA, CARABIDAE) IN EASTERN SAYAN MOUNTAIN STEPPES**

Key words: *Curtonotus fodinae*, population structure, life cycle, cereal pest, natural steppe conditions, Eastern Sayan Mountains.

The population structure of cereal pest Curtonotus fodinae in natural steppe conditions of Eastern Sayan Mountains was investigated. The features of seasonal dynamic activity of the ground beetles, sex-age structure and reproduction potential of generation females studied along catena with different microclimate conditions. The indexes of correlation sexes in each population were discover. The life cycle of species was decoded.

633.2(470.47)

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V. Yanov

FSEI HPT «Kalmyk State University», Elista

V. Moroz

FSEI HPT «Stavropolsk State University of Agriculture», Stavropol

Y. Imigeev

FSEI HPT “Buryat State Academy of Agriculture named after V. Philippov”

THE CREATION OF STANDING WINTER PASTURES IN THE DRY STEPPE CLIMAT OF THE KALMYK REPUBLIK

Key words: natural fodder places, wormwood-cereal vegetation, winter pastures, Kalmyk Republic.

Approximately 5 million hectares of natural fodder places in the Kalmyk Republic, consisted wormwood-cereal vegetation. This vegetation give the forage for autmn and winter period. The cereal grasses pollinated during autmn and wormwoods in winter. The research results show important role of wormwood using for long-time standing winter pastures creation.

636.4.082.2

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F. Cherkasov
State Scientific center «Stavropol scientific research institute of animal industries
and », Stavropol

INDEXES OF BUILD INWARDLY LINEAR SELECTION AND CROSSING

Key words: pigs, indexes of build, crossing, selection, large white, Estonian becker.

Study results of the Large White as a maternal form and Estonian Beckoner as a paternal form are represented in this paper. Measurements and indexes of the control and text animal build are introduced.

911.5/6:631.4

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D. Sympilova, E. Shakhmatova

Institut of general and experimental biology of the Siberian Branch of the Russian Academy of sciences, Ulan-Ude

LANDSCAPE-ECOLOGICAL ANALYSIS OF THE BOGORODSKY ISLAND

Key words: inundated landscapes, a hydrological mode, a climate, vegetation, physical and chemical properties of alluvial soils.

Landscapes of the Bogorodsky Island of the Selenga river flood-lands are studied and flat plains of a high flood-lands and marsh falls of a low flood-lands are presented.

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P. Abiduev, N. Ichigeeva, A. Lenchoboev, C. Dorgieva
FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

DEFINITION OF CHAMBER PRESSURE BY DISCOUNT FINITE OF DETONATION VELOCITY

Key words: a detonation of a gas mix, a detonation wave, a depression wave, pressure.
The of pressure obtained, modelling loads on inner side of the chambers by finite velocity spreading wave of detonation.

631. 363. 2

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N. Petinova, I. Shagdyrov
FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

PROOF OF MANY STEPS GETTING GRAIN MATERIAL SMALLER

Key words: crushing, the grinding module, multiphasic crushing.
The article shows analysis of means and methods of getting different grains smaller. The possibility of getting these grains smaller in many steps is proved.

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F. Gatapov

FSEI HPT "Buryat State Academy of Agriculture named after V. Philippov", Ulan-Ude

**PROSPECTS OF THE DEVELOPMENT OF THE INTRODUCTION
ELECTRO CONTACT WELDING METALLIC POWDER**

Key words: powdered metallurgy, electrocontact metallic powder.

In article are considered prospects of the use cake electrocontact metallic powder for fabrication product to powdered metallurgy.

624.011.1: 674.038.3

« - , E-mail:Yurii1102@Yandex.ru »,

Y. Sibiryakov
FSEI HPT "East-Siberian State University of Technology", Ulan-Ude

USING NON-POLLUTING TECHNOLOGIES IN BUILDING

Key words: wooden low buildings, three-layer wooden element of wall and heat conditions of properties.

In the article is written about the application of harmless building technologies. Buildings constructed by this technology probably to take for a basis of the non-polluting project "House-thermos" with a supply of wind and solar electric energy. Use for heater system and hot water supply a solar energy, applying local systems of clearing of drains and their regeneration to repeated economical use.