

ABSTRACTS

AGRONOMY

УДК 631.436

S.V. Makarychev

STRUCTURAL AND FUNCTIONAL CONCEPTION OF THERMO-PHYSICAL CONDITION OF SOILS

Structural and functional conception of thermo-physical condition of soils helps to reveal the ratio between soil wetness, dispersion degree, consistency and heat transmission indices.

УДК 633.4:41.3

O.A. Pirogov,
Y.P. Shoukis,
G.G. Degtyarenko

EVALUATION OF SPRING RAPE VARIETIES FROM THE POSITION OF PURPOSE-SPECIFIC USE

Results of studding realized and promising varieties of spring rape bred in the Altai Research Institute of Agriculture are presented taking into account different variants of their use. Conclusion is drawn that ANIISKH-4 is the best variety of oil rape after a complex of characteristics. The experimental variety Peredelka obtained by the transformation of a winter strain into spring one gives the best fit for the production of green fodder.

УДК 633.112:575.1

A.A. Zhorov,
M.G. Evdokimov,
V.S. Yusov,
L.V. Meshkova,
U.V. Kolmakov

THE RESULTS OF RESEARCH OF STARTING MATERIAL OF SPRING DURUM WHEAT IN THE CONDITIONS OF WESTERN SIBERIA

Genotypes of spring durum wheat from Mexico were compared with other countries' and domestic varieties. Some of the varieties are of great selective value because of their adaptive properties, grain quality and disease resistance.

УДК 633.11.321:631.526:631.55

L.V. Sokolova

SOFT WINTER CROP PRODUCTIVITY DEPENDING ON THE SEEDING RATE AND SEDDING METHOD IN THE CONDITIOS OF OB AREA PLATEAU

Soft winter crop Saratovskaya 29, Altaiskaya 50 and Pamyati Azaeva productivity dependens on seeding rates and seeding methods in moderately dry and forest outlier in the steppe in Ob area plateau was studied on the raining farm "Prigorodnoye", Altai Region. In order to obtain best results it is necessary to vary seeding rates and seeding methods depending on the variety which is used.

УДК 633.262:631.8:631.81.095.337(571.15)

O.V. Khurchakova

**IMPLEMENTATION EFFICIENCY OF MACRO- AND MICRO-FERTILIZERS
IN *BROMUS INERMIS*. L CULTIVATION IN ALTAI REGION**

Three years' long field experiments show that partnering of micro and macro fertilizers raises the level of green mass yield of *bromus inermis* totally to 25 tons per hectare during three years and on the average to 8.33 tones per hectare during three years.

ANIMAL PRODUCTION

УДК 636.32/.38:636.084.52:636.033

N.I. Nagdaliyeva

FATTENING OF SHEEP FOR MEAT PRODUCTION

The most available and cheap method to prepare sheep for sale is pasturage fattening. Sheep are divided into flocks depending on sex, age, and weight and good pastures, additional mineral fertilizing and watering are put into their disposal. To speed up the fattening sheep are given concentrates from 0.2 to 0.5 kg.

Stabling is implemented under deficiency or absence of pasturage. Stabling and pasturage fattening can be combined. Good results can be obtained under fattening with green mass combined with concentrates (0.3-0.6 kg) fed from feed boxes.

УДК 636.5.084+546.23

G.A. Trifonov,
K.A. Kuleshov**POSTNATAL MORPHOGENESIS OF DEODENUM OF CHICKENS ON APPLICATION
OF SELENIUM CONTAINING PREPARATIONS**

Application of 0.3 mg of elementary selenium per kilogram of live weight of chickens in the form of non organic sodium selenide and organic diacetonephenonilselenide raises the tempo of growth and morphological indices of the test organ, as well as absorption and adoption intensity of nutrients.

Selenium containing preparation diacetonephenonilselenide provides the most positive efficiency on application with the egg producing chickens in comparison with sodium selenide.

VETERINARY MEDICINE

УДК 619:618.2/.7

T.V. Zubova,
A.M. Yeranov**APPLICATION OF LASER IN OBSTETRICS**

Laser therapy can be very effective in obstetrics. It can also have beneficial impact on the reproductive function of cows.

УДК 619:616.9-036.22

V.N. Prudnikova

DEMONSTRATION OF LEUKOSIS IN CATTLE OF BLACK-AND-WHITE BREED

Black and white cattle population in Altai Region is infected by the leucosis virus more than other zone breeds. A big number of leucosis cows were revealed in autumn. Routine anti-leucosis measures can provide free of leucosis herds.

TECHNOLOGIES AND EQUIPMENT IN AGRICULTURE

УДК 631.3.145

V.A. Zavora,
V.I. Tolokolnikov,
S.N. Vasiliev**MODERN CONDITION AND BASIC WAYS FOR THE DEVELOPMENT
OF CROP PRODUCTION MECHANIZATION IN THE AGRO-INDUSTRIAL COMPLEX**

Consideration is given to the condition of agro-industrial complex, course and direction of the reforming in this brunch in modern condition are analyzed, and priority propositions in the development of agricultural machines for cropping production are defined as well as ways and means for its effective implementation.

УДК 631.004.056

V.I. Belyaev,
I.I. Bauer,
U.S. Zyga**PULL TEST AND AGROTACHNICAL EVALUATION OF SOWING UNITS
IN DIFFERENT SPEED REGIMES**

Evaluation of influence of speed running regimes of sowing units based on the tractor K-701 with the complexes APK-7.2+2SZP-3.6, Ob-43T and SKP-2.1 on the draught resistance, quality metrics of sowing and formation of wheat yield in the conditions of Ob area in the Altai Region is presented.

УДК 621.311.25

S.A. Pavlov,
I.V. Dyomina,
V.A. Dyomin**HELIUM HEATING INSTALLATIONS IN HOT WATER SUPPLY ENGINEERING WITH INSOLATION
OF HORIZONTAL SURFACE**

Questions of use of energy of renewable sources are more and more pressing because of high cost of other sources of energy. A new construction of sun water-heating installation is offered and methods of calculation of its characteristics on nomogram are adduced.

ECONOMICS OF AGRICULTURAL INDUSTRY COMPLEX

УДК 338.431.001.76:911.3

**V.A. Kundius,
A.V. Glotko,
A.V. Diakov,
M.G. Kudinova,
O.Y. Ovcharenko,
A.V. Sibiriyakov**

INNOVATIVE CLUSTER DEVELOPMENT OF AGRICULTURAL INDUSTRIAL COMPLEX IN THE REGION

The main point and meaning of clusters for innovative development of agricultural industrial complex in the region, support of its competitive ability, priorities of the cluster policy, the role of the state in the cluster approach to the formation of regional agricultural industrial complex and mechanism of its development are revealed.

УДК 338.431: 351/354

**A.I. Kolobova,
Y.N. Tokareva,
Y.V. Ilyushnikova**

SOME PROBLEMS IN STATE REGULATION OF AGRICULTURAL SECTOR OF ECONOMICS

Taking into account the crisis situation in the agricultural sector of economics the ways to improvement of state regulation in the following directions are offered: price formation, taxation, insurance system, reforming in the system of supplies of materials and machinery in the brunch, social framework development.

УДК 336.1/.5 (094.4) 351/354 (075.8) 65:631.1:353:37:338.93 (087.5)

A.A. Kashin

SYSTEM OF INTERMUNICIPAL COOPERATION AS AN INSTRUMENT OF THE SOCIAL ECONOMIC DEVELOPMENT AND THE ECONOMIC FINANCIAL INDEPENDENCE OF THE MUNICIPAL FORMATION IN THE RURAL AREA

System of intermunicipal cooperation as an instrument of the social-economic development and the economic-financial independence of the municipal formations in the rural area

Having analyzed the possibilities giving by the law in the sphere of the organization of the local self-government in the Russian Federation, the author offers a system of the intermunicipal cooperation as an instrument of the interaction between different levels of the power on the rural municipal formations. Examining the problems of the interaction of the budgets on different levels: the rural settling, the municipal region, the subject of the Russian Federation and the federal budget, the author reveals the economic basis of the state influence on the farms of the local self government. The author describes the perspectives of the system of the intermunicipal cooperation as the main factor of the development of the international trade connections on the basis of the financial independence of the local municipal formations.

УДК 347.779.003.12

**V.A. Kundius,
D.G. Galkin**

PECULIARITIES AND APPROPRIATENESS OF THE BASIC APPROACHES TO THE EVALUATION OF THE OBJECTS OF INTELLECTUAL PROPERTY

Modern domestic market of the evaluation of market value of the objects of intellectual property can be characterized as coming into being. There are some approaches to the evaluation of

intellectual property, but some of them don't reflect the real value of this property. The conducted analysis helps to offer an alternative to one of the approaches to evaluation.

QUALITY AND EFFICENCY

УДК 338.431:631.6.02.003.13

A.M. Zubakhin,
Y.A. Simonova

RESORT APPROACH AS ONE OF THE DIRECTIONS IN EVALUATION OF ECONOMIC EFFICIENCY

There are different theories concerning a complex scientific phenomenon – economic efficiency. Different methodical approaches in the evaluation of economic efficiency are analyzed.

УДК 338.439

N.S. Bezmaternykh

FOOD SAFETY OF A REGION AND THE FACTORS OF FOOD SAFETY

The article provides the difference between the concept of food safety and the concept of food independence. The author's classification of the food safety factors reveals the concept of food safety with the object of developing regional agricultural policy and guaranteeing the food safety of a region.

УДК 323.33

O.A. Davydkina

EVALUATION OF QUALITATIVE CHARACTERISTICS OF AGRICULTURAL LAND RESOURCES

The method of evaluation of qualitative characteristics of agricultural land resources is offered and illustrated by the example of Penza Region. Measures to increase their quality are offered.
