ABSTRACTS

AGRONOMY

УДК 633.11.321:631.526:631.55

I.T. Trofimov, L.V. Sokolova

OF SPRING SOFT WHEAT VARIETIES

The results of studies of the effect of various seeding methods on yields of spring soft wheat varieties Saratovskaya 29, Altaiskaya 50 and Pamyati Azieva in the conditions of temperate arid forested steppe of the Altai Region during the period of 2003-2005 (the Training Farm "Prigorodnoye") are presented. The analysis of the obtained results revealed that different spring soft wheat varieties need different seeding methods to achieve maximum yield.

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УДК 631.4:631:8 (571.15)

G.G. Morkovkin, I.V. Dyomina

EFFECT OF GREEN MANURE ON STRUCTURAL-AGGREGATE COMPOSITION OF LEACHED CHERNOZEMS

Effect of green manure on structural-aggregate composition of leached chernozems was investigated. It is revealed that application of pea-oats mix and buckwheat increases number of agronomically valuable aggregates and positively affects the content of water-stable aggregates in soil.

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УДК 633/635 (571.15)

N.V. Yashutin, D.A. Pugach

AGROPHYTOCENOSIS OF THE ALTAI MOUNTAINS PIEDMONTS: DESCRIPTION AND EVALUATION OF THEIR USE

Field and meadow agrophytocenosis of the Altai Mountains piedmonts are examined, description of their species composition is presented, integrated evaluation of their productivity is given.

УДК 632.954

A.V. Ilyin, N.V. Yashutin

EFFECT OF RATES OF GRAMICIDES' APPLICATION ON INFESTATION AND YIELDS OF SPRING WHEAT IN THE ALTAI PRIOBYE AREA

Spring wheat in the Priobye area of the Altai Region is infested by annual monocotyledonous weeds. To suppress annual monocotyledonous weeds the following gramicides are generally applied – Fenoxaprop-P-Ethyl with antidote (Puma Super 100 CE, Gepard Extra CE, Puma Super 7.5 of Bayer) and Clodinafop Propargyl with antidote (Topik CE of Syngenta).

When the crops are well developed, and the weeds grow actively the rate of Puma Super 100 CE application is 0.4-0.5 litres per ha, Topik CE application rate is 0.3 litres per ha. Decrease of application rates to greater extent results in biological effectiveness drop, to lesser extent in economic effectiveness drop.

УДК 634.13:581.5

V.F. Severin, L.M. Kozhevnikova, N.V. Burlachko

PEAR IN THE FOREST-STEPPE OF THE OMSK REGION

The studies on possibility of growing pear in the forest-steppe of the Omsk Region were carried out in the Omsk State Variety Testing Station with seven varieties of Krasnoyarsk and Altai breeding as competitive variety trial started in October 1987. The effect of weather conditions on the trees winter hardiness, their yields and fruit quality in the period between 1993 and 2006 was monitored. It is revealed that pear may be grown in the Omsk Region; the varieties Sibiryachka and Krasnoyarskaya Krupnaya, Olenyok and Nevelichka have prospects for commercial gardening, while the varieties Svarog, Kuyumskaya and Veselinka have no such prospects.

УДК 632.651:633.34

Lee Khunpen, L.K. Dubovitskaya, I.B. Kozhushko

EVALUATION OF SOYBEAN VARIETIES AND SELECTION VARIETIES ON RESISTANCE TO SOYBEAN CYST NEMATODE

20 soybean varieties and selection varieties were examined on their resistance to soybean cyst nematode with invasion load of 20, 40 cysts per 3.5 kg of soil. Highly resistant selection varieties Amurskaya 2026, 2029, 2031, Kheikhe 4, 8, 9, 18, 19 were identified. Impact of the nematode on photosynthetic parameters and productivity of soybean plants of Kheikhe 14 and Sonata varieties. Reduction of seeds' weight and of beans' number was revealed in the invaded areas.

AGRICULTURAL ECOLOGY

УДК 631.4:630.43

I.T. Trofimov, I.Y. Bakhareva

PECULIARITIES OF POST-PYROGENIC TRANSFORMATION OF SOD-PODZOLIC SOILS OF SOUTH-WEST PART OF BANDED FORESTS OF THE ALTAI REGION

Forest fires influence sod-podzolic soil properties in different ways.

Under the influence of forest fires there occurs alkalization of soils, hydrolytic acidity is reduced. Development of sod process results in humus content increase as well as increase of constituting humic acids.

УДК 556.114.6 (571.15)

S.F. Spitsina, T.N. Tkachenko, V.G. Bakharev

TRACE ELEMENTS WATER MIGRATION COEFFICIENTS: COPPER, ZINC, MANGANESE, COBALT, BORON, AND MOLYBDENUM IN THE ALTAI REGION

Data on water migration coefficients of trace elements as copper, molybdenum, manganese, zinc, cobalt and boron figured by A.I. Perelman's method (1966) in various areas of the Altai Region is presented. It is revealed that cobalt and manganese have the lowest coefficients, molybdenum and boron have the highest coefficients in arid conditions, zinc has the highest coefficient in hymid conditions.

ANIMAL PRODUCTION

УДК 636.93.061

N.Y. Vladimirova, N.I. Vladimirov

EFFECT OF LIGHT REGIME ON SOME PECULIARITIES OF GROWTH AND DEVELOPMENT OF POLAR FOXES OF GAGARINSKAYA BREED

Shading of cages of both female and male species of polar foxes of Gagarinskaya breed positively results in live weight increase making up 0.5-7.4%, body length increase - 0.8-2.7%, chest girt increase behind shoulders - 0.2-2.4%, all in individual periods with reliable difference. The farms raising polar foxes of Gagarinskaya breed are advised to shade the sheds of finishing animals for the period up to 135 days.

УДК 636.294:591.471.42/.44

A.V. Bezmaternykh, Y.M. Malofeyev

MECHANICAL STRENGTH OF HUMERUS AND RADIUS OF MARAL IN AGE-SPECIFIC ASPECT

The study of maximum strength of humerus and radius of maral revealed that factor being lower in humerus than in radius during the whole postnatal ontogenesis. It is revealed that in newly born marals the strength of the studied bones is minimal. Compression strength increases during five years (most intensively from birth to six months) reaching its maximum. By the age of 12 marals reveal some decrease of humerus and radius strength.

TECHNOLOGIES AND MEANS OF AGRICULTURE MECHANIZATION

УДК 631.58:631.4(71)

V.I. Belyayev

EXPERIENCE OF CONSERVATION CROP FARMING PRACTICES IN THE PLAIN PROVINCES OF CANADA

Analysis of current state of crop farming in the plain provinces of Canada is presented. The major advantages of no-till practices are analysed. The principles of the practices and the implementation results are presented.

УДК 631.363.2:636(075.8)

I.Y. Fedorenko, A.F. Knorr, I.N. Goryunov

THEORY OF MULTIPLE-STAGE OF FORMULA FEED MIXING

Regularities of formula feed mix production in serial continuously working mixers are considered. Operative formulas are obtained, calculation techniques of necessary number of mixing stages are proposed, as well as of forecasted value of the mix's coefficient of nonuniformity.

УДК 631.3.145 V.A. Zavora

SOME ISSUES OF PERSPECTIVE EQUIPMENT OF CROP FARMING SECTOR OF AGRICULTURAL INDUSTRY COMPLEX WITH MACHINERY

The issues and problems of perspective equipment of crop farming sector of agricultural industry complex with machinery are considered, some measures to increase level of farm mechanization with least expenditures are proposed.

ABSTRACTS

УДК 633.34.664.0:636.084

V.I. Zemskov, G.M. Kharchenko

DESCRIPTION OF VEGETABLE OILS' REFINING METHODS

Vegetable oils' refining methods are described. The processes contributing to specific refining operation are analysed. It is pointed out that centrifugation with application of zeo-lite filtering plate alongside with removal of mechanical impurities, fine-dyspersated particles, and soap stock adsorbs dye-stuffs and water. Conclusion is made on advantages of filtering centrifuges compared to different mechanical methods of vegetable oils' refining.

ECONOMICS OF AGRICULTURAL INDUSTRY COMPLEX

УДК 64.024.3/.4:63:339.13 (571.15)

V.A. Kundius, N.V. Trushina

ISSUE OF FORMATION OF MECHANISM OF DIRECT INTERACTION OF ENTERPRISES OF PUBLIC CATERING AND AGRICULTURE IN THE REGIONAL FOOD MARKET

Foodstuffs, its production, exchange and consumption are important components of economic system directly connected with life-support of people. The main producer of foodstuffs is agriculture. Interaction between production and consumption of foodstuffs is provided by the mechanisms of the food market.

УДК 657:631.145

Y.V. Kashinskaya, L.I. Kirkeyeva

THE ROLE OF MANAGERIAL ACCOUNTING IN ECONOMIC DEVELOPMENT OF THE AGRICULTURAL INDUSTRY COMPLEX ENTERPRISES

The main aspects dealing with the role of managerial accounting, issues of managerial accounting definition, and its substance are revealed. Various authors' viewpoints regarding the definition of managerial accounting are considered.

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УДК 331.522.4(371.15)

A.A. Fannenshtil, V.V. Gorshkov, I.M. Penkova

ROLE OF EMPLOYMENT SERVICE IN JOB PLACEMENT OF RURAL POPULATION

The role of employment service of municipalities in job placement of rural population is studied by the example of the Blagoveshchenskiy District of the Altai Region. Number of people who applied to the employment service in search for job in 2006 increased by 27.6% compared to 2004. The activity of the employment service in 2006 reduced the number of registered unemployed 1.5 times more than in 2004; employment growth was more than 10.5%, vocational training more than 40%.

ABSTRACTS

УДК 33.001 **R.K. Tuguz**

DYSFUNCTIONALITY OF IDEOLOGY IN THE DEVELOPMENT OF ECONOMIC THEORY

Concept of re-ideologisation of economic science is criticized and an attempt is undertaken based on short historic analysis to prove scientific and pedagogic dysfunctionality of any ideology in the development of modern economic theory.

УДК 331.5 (571.15)

V.I. Belyayev, M.V. Kotvanov

METHODOLOGY OF LABOUR MARKET TENSION ANALYSIS BY THE EXAMPLE OF AGRICULTURAL LABOUR MARKET OF THE ALTAI REGION

The issue of reliable evaluation of the situation in the labour market in the agricultural industry sector of the Altai Region is discussed. Methodology of labour market tension analysis is proposed; the methodology may be used in research activity and in solution of applied problems.