

C O N T E N T

1.FOOD SECURITY AND INCOME DIVERSIFICATION NEXUS: USDA APPROACH

Kazeem Oriyomi ABOABA, Akeem Adesina AKAMO, Damilare Michael FADIJI, Tohib Oyeyode OBALOLA..... 13

2.LOAN DIVERSION AND EFFECT ON THE GROWTH OF SMALL-SCALE POULTRY FARMS IN NIGERIA

Felix Odemero ACHOJA..... 25

3.ANALYSIS OF IMPROVED CASSAVA VARIETIES' CULTIVATION AND DOWNSIDE RISK EXPOSURE AMONG FARMERS IN ONDO STATE, NIGERIA

Adekunle Isaac ADETULA, Taiwo Timothy AMOS, Lawrence Olusola OPARINDE 33

4.UTILIZATION OF ICTS IN ACCESSING COCOA BEANS MARKET INFORMATION BY CROSS RIVER STATE FARMERS

Anthony Eghe AGBONGIARHUOYI, Kehinde Adesina THOMAS, Eghosa Osas UWAGBOE, Busayo Solomon FAMUYIWA..... 45

5.DEVELOPMENT AND EVALUATION OF EFFICIENCY OF LEASING ACTIVITIES IN AGRICULTURAL SECTOR OF UKRAINE

Oksana H. AGRES, Oksana B. SADURA, Tetiana O. SHMATKOVSKA, Sergii V. ZELENKO 53

6.COMMUNICATION PATTERN USED BY COMMUNITY DEVELOPMENT ASSOCIATIONS: EMPIRICAL EVIDENCE FROM ILERO, OKE-OGUN, OYO STATE, NIGERIA

Adedayo O. AJAYI, Kolawole A. ADELOYE, Khadijat O. OLANREWAJU, Khadijat O. OLAYINKA..... 61

7.AN APPRAISAL OF TRADITIONAL INCUBATION AND HATCHING METHODS OF INDIGENOUS POULTRY EGGS IN KWARA STATE, NIGERIA

Bababunmi Alaba AJAYI, Abiodun Oladayo AJALA, Abiodun Rukayat ADEYEMO..... 69

8.PROFITABILITY OF SMALL-SCALE CATFISH PRODUCTION IN SOUTHWEST NIGERIA: THE CHALLENGES

Olubunmi Olanike ALAWODE, Stephen Olubusoye AJAGBE..... 77

9. POTENTIAL MARKET CAPACITY AS THE BASIS FOR THE DEVELOPMENT OF ORGANIC PRODUCTION IN THE RUSSIAN FEDERATION

Elena Alexandrovna ALESHINA, Anna Alexandrovna LEKSINA..... 89

10.ASSESSMENT OF THE RURAL POPULATION ECONOMIC ACTIVITY IN THE SYSTEM OF UNITED TERRITORIAL COMMUNITIES DEVELOPMENT: A CASE STUDY OF VOLYN REGION, UKRAINE

Oksana APOSTOLYUK, Tetiana SHMATKOVSKA, Inna CHYKALO, Andrew HUSAK..... 99

11.TECHNICAL AND ECONOMIC EFFICIENCY OF ANCIENT WHEAT SPECIES, GROWN UNDER DIFFERENT TECHNOLOGIES OF ORGANIC FERTILIZATION

Dimo ATANASOV, Plamen ZOROVSKI, Rositsa BELUHOVA-UZUNOVA..... 109

12.AGRICULTURAL EXTENSION SERVICES AND FARM INPUT SUPPLY LINKAGE IN OGUN STATE, NIGERIA

Adefunke Fadilat Olawunmi AYINDE, Olaoluwa Ayodeji ADEBAYO, Mathias Ofonedu UMUNNA, Azeez Olalekan IBRAHIM..... 119

13.THE BIOENERGY POTENTIAL OF AGRICULTURAL RESIDUES IN ROMANIA

Daniela Nicoleta BĂDAN, Eduard Alexandru DUMITRU..... 125

14.PRECISION TECHNOLOGIES IN SOFT FRUIT PRODUCTION

Rositsa BELUHOVA-UZUNOVA, Dobri DUNCHEV..... 131

15.FOOD SELF-SUPPLY AS A FORM OF SATISFYING CONSUMER NEEDS - AN EXAMPLE OF RURAL HOUSEHOLDS IN POLAND

Agnieszka BIERNAT-JARKA, Paulina TREBSKA..... 139

16.PHENOLOGY, YIELD AND PROTEIN CONTENT OF MAIZE (*Zea mays* L.) HYBRIDS AS AFFECTED BY DIFFERENT SOWING DATES

Dorina BONEA..... 145

17.SCREENING FOR DROUGHT TOLERANCE IN MAIZE HYBRIDS USING NEW INDICES BASED ON RESILIENCE AND PRODUCTION CAPACITY

Dorina BONEA..... 151

18.EVALUATION OF THE QUALITY OF THE OUTPUTS OF THE VOCATIONAL EDUCATION SYSTEM WITH AGRICULTURAL PROFILE BASED ON ITS CONTRIBUTION TO THE ACHIEVEMENT OF THE TASKS FOR SUSTAINABLE RURAL AREAS DEVELOPMENT

Alina CARADJA..... 157

19.JOB SATISFACTION OF EMPLOYEES IN PRIVATE TOURISM ORGANIZATIONS IN OSUN STATE, NIGERIA

Jude CHIKEZIE, Olaoluwa Ayodeji ADEBAYO, E. Olushola ADEDEJI, Olabode L. OMOTAYO, Deji A. JOSHUA, Gbemiga T. KOLAWOLE, John ONIHUNWA 163

20.THE CLIMATE VARIABILITY OF THE AGRICULTURAL YEAR 2016-2017 CASE STUDY: THE SOUTH-WEST OLTENIA REGION, ROMANIA

Dana Maria CONSTANTIN (OPREA), Ion MARINICĂ, Nicoleta IONAC, Andreea Floriana MARINICĂ, Elena GRIGORE, Elena BOGAN, Florina TATU..... 169

21.DETERMINANTS OF RURAL HOUSEHOLD SAVINGS BEHAVIOR: THE CASE OF AMBO DISTRICT, OROMIA NATIONAL REGIONAL STATE, ETHIOPIA

Kumala DEKSISA, Mulubrihan BAYISSA 179

22.THE LEVEL AND QUALITY OF INCLUSIVE GROWTH AGRI-FOOD SYSTEM IN MODERN CONDITIONS

Elena DERUNOVA, Natal'ya KIREEVA, Olesya PRUSCHAK 193

23.AGRICULTURE AND RURAL DEVELOPMENT: PATHS OF CHANGE AND CONSEQUENCES

Julia DOITCHINOVA, Albena MITEVA..... 207

24.AGRICULTURAL COOPERATION AS A FORM OF ORGANIZATION OF RATIONAL LAND USE

Olha DOROSH, Iosyp DOROSH, Shamil IBATULLIN, Viacheslav FOMENKO, Andriy DOROSH..... 215

25.ESTIMATING THE ECONOMIC EFFICIENCY OF MEDICINAL CROPS

Eduard Alexandru DUMITRU, Rozi Liliana BEREVOIANU, Adriana MUSCALU, Cătălina TUDORA..... 223

26.ASSESSMENT OF AGRICULTURAL SCIENTISTS' KNOWLEDGE OF GENETICALLY MODIFIED CROPS: IMPLICATIONS FOR FOOD SECURITY IN NIGERIA

Blessing Ogheneyoma EMEDE, Oluwatosin Oluwasegun FASINA..... 229

27.COMPENSATING WAGES OF AGROCHEMICAL EXPOSURE RISKS OF COCOA FARMWORKERS

Damilare FADIJI, Luke OKOJIE, Dare AKERELE, Jefferson OKOJIE 239

28.THE ANALYSIS OF PRODUCTION FLUCTUATION, CARRIED OUT IN 2019, ON A GROUP OF VARIOUS ECONOMIC SIZED ENTITIES

Adina- Nicoleta FLOREA, Nicoleta MATEOC–ȘÎRB..... 247

29.IMPACT OF THE FOURTH INDUSTRIAL REVOLUTION ON THE DEVELOPMENT OF SCIENTIFIC RESEARCH IN THE FIELD OF AGRICULTURAL ENGINEERING IN EGYPT AND ARAB WORLD

Tarek FOUDA 253

30.MONITORING WHITE MOLD *SCLEROTIA PERORATES* TO REDUCE THE RISKS IMPACT ON IMPORTED SOYBEAN SEEDS

Tarek FOUDA, Asaad DERBALA, Adel HELAL, Amina ALBEBANY..... 259

31.OPTIMAL RESOURCE ALLOCATION IN YAM-BASED CROPPING SYSTEMS IN YORRO LOCAL GOVERNMENT AREA OF TARABA STATE NIGERIA

Dengle Yuniyus GIROH..... 267

32.PLACE AND ROLE OF AGENCY FOR FINANCING RURAL INVESTMENTS - AFIR IN ABSORBING EUROPEAN FUNDS

Sebastian GUT..... 275

33.SELECTION OF ECONOMIC INDICATORS FOR MEASURING SUSTAINABLE RURAL DEVELOPMENT

Mateja JEŽ ROGELJ, Ornella MIKUŠ, Lari HADELAN..... 285

34.STUDY ON CULTIVATED AREAS AND PRODUCTIONS IN ROMANIA IN THE MAIN CROPS IN AN EUROPEAN CONTEXT

Andreea Lidia JURJESCU, Anca NAN, Teodor MATEOC, Cristina BACĂU, Nicoleta MATEOC –ȘÎRB..... 297

35.SUSTAINING RURAL LIVELIHOOD THROUGH ENTREPRENEURSHIP AND CREATIVE VILLAGE DEVELOPMENT: MALAYSIA AND INDONESIA EXPERIENCE

**Khairul Hisyam KAMARUDIN, Rustina UNTARI,
Mohamad Fadhli RASHID..... 303**

36.PERSPECTIVES OF HAY-MAKING PRODUCTION ON SLOPES WITH SOUTH AND NORTH ORIENTATION ON EXAMPLE OF CHERNOZEM PODZOLIZED IN UKRAINE

**Sergii KHALIN, Valerii KOLIADA, Pavlo NAZAROK,
Liubov KORCHASHKINA, Liubov KOLIADA, Olga KOLIADA,
Serhii CHUHAIIEV..... 311**

37.ECONOMIC MODELING OF SUSTAINABLE RURAL DEVELOPMENT UNDER THE CONDITIONS OF DECENTRALIZATION: A CASE STUDY OF UKRAINE

**Nataliia KHOMIUK, Olena BOCHKO, Nataliia PAVLIKHA,
Anton DEMCHUK, Olena STASHCHUK, Tetiana SHMATKOVSKA,
Nataliya NAUMENKO..... 317**

38.STRATEGIC PRIORITIES OF FINANCIAL SUPPORT FOR SUSTAINABLE SOIL MANAGEMENT IN UKRAINE

Anatolii KUCHER..... 333

39.OPPORTUNITIES AND BARRIERS ON THE WAY OF INTRODUCING INNOVATIONS IN AGRICULTURAL ENTERPRISES

Lesia KUCHER..... 343

40.DEVELOPMENTAL FACTORS OF AGRICULTURAL CONSUMER CREDIT COOPERATIVES AS AN ALTERNATIVE FINANCIAL INSTITUTE FOR RUSSIAN AGROINDUSTRIAL COMPLEX

**Tatiana P. MAKSIMOVA, Tatiana G. BONDARENKO, Olga A. ZHDANOVA,
Gharib Hovhannes HARUTYUNYAN..... 353**

41.CHARACTERISTICS AND TYPOLOGY OF DAIRY CATTLE FARMING SYSTEMS IN WEST REGION OF ALGERIA

**Zakaria MESKINI, Nadra RECHIDI-SIDHOUM, A. El-Amine DAHOU,
Khalil BOUNAAMA, Abdelkader HOMRANI..... 361**

42.FOOD WASTE MANAGEMENT USING STATISTICAL ANALYSIS TO OBTAIN NEW FUNCTIONAL PRODUCTS

Gjore NAKOV, Zlatin ZLATEV, Nastia IVANOVA, Ivan DIMOV..... 369

43.ASSESSMENT OF FARMERS’ PARTICIPATION AND ATTITUDE TOWARDS GROWTH ENHANCEMENT SUPPORT SCHEME IN OGBOMOSO AGRICULTURAL ZONE OF OYO STATE, NIGERIA

Janet T. OJEDIRAN, Rasheed G. ADEOLA, Kehinde Y. OGUNLEYE, Saheed B. RAHMAN..... 377

44.PIGEON PEA SEED: LEVEL OF AWARENESS, UTILIZATION AND CONSTRAINTS TO USE AS A FEEDSTUFF AMONG LIVESTOCK FARMERS IN OGBOMOSO ZONE OF NIGERIA

Janet Temitope OJEDIRAN, Taiwo Kayode OJEDIRAN, Shakirat SALAMI, Victor DUROJAIYE, Rasheed Gbolagade ADEOLA..... 385

45.AWARENESS OF CASSAVA PEEL UTILIZATION AS A FEEDSTUFF AMONG LIVESTOCK FARMERS IN OGBOMOSO ZONE OF NIGERIA

Taiwo Kayode OJEDIRAN, Victor DUROJAIYE, Rasheed Gbolagade ADEOLA, Janet Temitope OJEDIRAN..... 395

46.INVESTIGATING THE WEST AFRICA AGRICULTURAL PRODUCTIVITY PROGRAMME FOR EFFECTIVENESS AMONG MAIZE FARMERS IN MAMOU, REPUBLIC OF GUINEA

Nathaniel Siji OLUTEGBE, Mamadou Alpha BAH..... 405

47.BEE HONEY PRODUCTION CONCENTRATION IN ROMANIA IN THE EU-28 AND GLOBAL CONTEXT IN THE PERIOD 2009-2018

Agatha POPESCU, Toma Adrian DINU, Elena STOIAN, Valentin SERBAN 413

48.EWES AND GOATS' CONTRIBUTION TO THE EU-28 MILK PRODUCTION IN THE PERIOD 2010-2018

Agatha POPESCU, Cristina TINDECHE, Adelaida HONTUS, Alina MARCUTA, Liviu MARCUTA, Carmen ANGELESCU..... 431

49. SILK TRADE IN THE EUROPEAN UNION: TRENDS IN THE PERIOD 2010-2019

Agatha POPESCU..... 443

50.SORGHUM PRODUCTION IN ROMANIA IN THE PERIOD 2010-2019 - TRENDS AND DETERMINANT FACTORS

Agatha POPESCU..... 455

51.OILSEEDS CROPS: SUNFLOWER, RAPE AND SOYBEAN CULTIVATED SURFACE AND PRODUCTION IN ROMANIA IN THE PERIOD 2010-2019 AND FORECAST FOR 2020-2024 HORIZON

Agatha POPESCU..... 467

52.SORGHUM PRODUCTION IN THE EU-28 IN THE PERIOD 2008-2019 AND ITS FORECAST FOR 2020-2014 HORIZON

Agatha POPESCU..... 479

53.STRENGTHENING THE SKILLS OF FUTURE SPECIALISTS IN ACCORDANCE WITH THE DEVELOPMENT TRENDS OF THE ANIMAL HUSBANDRY SECTOR IN THE REPUBLIC OF MOLDOVA

Veronica PRISACARU, Tatiana SEVCIUC, Grigore BALTAG 489

54.INVESTMENT APPRAISAL OF SELECTED CLIMATE SMART AGRICULTURAL (CSA) PRACTICES AMONG SMALL SCALE COCONUT FARMERS IN LEYTE, PHILIPPINES

**Jessa H. RUALES, Moises Neil V. SERIÑO, Therese C. RATILLA,
Jacob G. CUIZON, Wendy C. ENERLAN..... 499**

55.MODEL OF VINES PRODUCTION VARIATION IN RELATION TO PHYSIOLOGICAL INDICES

Florin SALA..... 507

56.FRACTAL ANALYSIS IN ESTIMATING THE FRAGMENTATION DEGREE OF AGRICULTURAL LANDS

Florin SALA, Cosmin Alin POPESCU, Mihai Valentin HERBEL..... 517

57.TURKISH AGRICULTURAL EXPORTS TO EURO-MEDITERRANEAN COUNTRIES: A GRAVITY MODEL APPROACH

Deniz SARICA, Lionel HUBBARD, Philip DAWSON 525

58.IMPLEMENTATION OF COMMUNITY – LED LOCAL DEVELOPMENT STRATEGIES - EVIDENCE FROM SOUTHERN BULGARIA

Mariyana SHISHKOVA..... 537

59.ECONOMIC EFFICIENCY OF LAND USE BY AGRICULTURAL PRODUCERS IN THE SYSTEM OF THEIR NON–CURRENT ASSETS ANALYSIS: A CASE STUDY OF THE AGRICULTURAL SECTOR OF UKRAINE

**Tetiana O. SHMATKOVSKA, Mykola I. DZIAMULYCH,
Valentyna M. YAKUBIV, Olha A. MYSHKO, Liudmyla V. STRYZHEUS,
Roman D. YAKUBIV 543**

60.DIVERSITY AND ABUNDANCE INDEX OF ENTOMOPATHOGENIC FUNGI AND THEIR HOSTS IN RICE PLANTATIONS BOLAANG MONGONDOW REGENCY, INDONESIA

Parluhutan SIAHAAN, Max TULUNG, Jantje PELEALU, Christina SALAKI..... 555

61.PHYTOMONITORIZATION OF THE INTENSITY OF PHOTOSYNTHESIS, RESPIRATION AND TRANSPIRATION IN HAIR PLANTS

Gheorghe ŞIŞCANU, Gheorghe SCURTU, Nina TITOVA, Gheorghe BALMUS, Maia RUSU, Emil KLEIMAN..... 563

62.ECONOMIC PROFITABILITY AND ECOLOGICAL JUSTIFICATION OF BUCKWHEAT CULTIVATION IN THE REPUBLIC OF SERBIA

Zorica SREDOJEVIĆ, Nataša KLJAJIĆ, Slavica ARSIĆ..... 571

63.RESEARCH ON THE EVOLUTION OF THE NUMBER OF AGRICULTURAL HOLDINGS IN THE PERIOD 2002 – 2016

Cristina STERIE, Eduard Alexandru DUMITRU..... 579

64.ANALYSIS REGARDING THE SITUATION OF THE ROMANIAN VILLAGE - CASE STUDY, TETOIU COMMUNE, VÂLCEA COUNTY, ROMANIA

Cristina STERIE..... 583

65.ECOLOGICAL AND ECONOMIC ESTIMATION OF AGRICULTURAL LAND REPRODUCTION EFFICIENCY IN LVIV REGION

Mykhailo STUPEN, Nazar STUPEN, Zoriana RYZHOK, Oksana STUPEN..... 589

66.AGRO-CLIMATIC SUBSTANTIATION OF GROWING AGRICULTURAL CROPS IN CROP ROTATION

Roman STUPEN, Oksana CHERECHON, Oksana STUPEN, Olga SOLTYS 593

67.RECIPROCATION OF SOCIO-ECONOMIC ATTRIBUTES OF THE RESOURCE-POOR RICE GROWERS: IMPLICATIONS FOR OUTREACH ORGANIZATIONS IN PAKISTAN

Umair TALIB, Robert AGUNGA, Han HONGYUN..... 597

68.ECONOMIC SUSTAINABILITY – A BASIC FACTOR FOR INCREASING THE QUALITY OF LIFE OF THE POPULATION

Elena TIMOFTI, Veronica MOVILEANU, Aliona ŞARGO 603

69. NON-CONVENTIONAL AGRICULTURAL LAND USE IS THE BASIC FOUNDATION FOR ITS CAPITALIZATION AND SOCIALIZATION IN RURAL AREAS

Valentina TRETIAK, Valeriy LYASHYNSKYI, Nataliia TRETIAK, Nataliia KAPINOS..... 609

70. FACTORS AFFECTING THE TURKISH FARMERS' DECISION TO QUIT FARMING

Berna TÜRKEKUL, Canan ABAY..... 617

71. SUBSIDIES AS A FACTOR AFFECTING ECONOMIC PERFORMANCE OF FARMS IN THE SLOVAK REPUBLIC

Maroš VALACH 625

72. RURAL DEVELOPMENT IN THE CONTEXT OF SOCIAL WEALTH: ASPECTS OF THE REGIONAL LABOR MARKET

Marina Alexandrovna VOLOKHOVA, Ivan Sergeevich NOVIKOV..... 635

73. INTERACTION OF ASSET TANGIBILITY ON THE RELATIONSHIP BETWEEN LEVERAGE STRUCTURE AND FINANCIAL DISTRESS IN AGRICULTURE-LINKED NON-FINANCIAL FIRMS

Wen XUEZHOU, Rana Yassir HUSSAIN, Haroon HUSSAIN, Muhammad SAAD, Rehan Sohail BUTT..... 649

74. INFLUENCE OF MARKETING INSTRUMENTS ON THE FORMATION AND USE OF MARKETING POTENTIAL OF AGRICULTURAL ENTERPRISES

Nataliia ZELISKO, Svitlana KOLACH, Ruslana MAGIJOVYCH, Orysia VASYLYNA 663