

Ministry of Education and Science of Ukraine
Sumy State University
Oleg Balatskyi Academic and Research Institute
of Finance, Economics and Management

SOCIO-ECONOMIC CHALLENGES

Proceedings
of the International Scientific and Practical Conference

(Sumy, November 3–4, 2020)



Sumy
Sumy State University
2020

330.3:005(063)

S62

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S62 Socio-Economic Challenges : Proceedings of the International Scientific and Practical Conference, Sumy, November 3–4, 2020 / edited by Prof., Dr. Vasilyeva Tetyana. – Sumy : Sumy State University, 2020. – 511 p.

Proceedings of the International Scientific and Practical Conference "Socio-Economic Challenges" are devoted to finding a systemic solution to multidisciplinary problems in the field of modern development, management, administration of various systems, corporate social responsibility, innovation management in various fields of environmental management.

For scientists, scientists, students, graduate students, representatives of business and public organizations and higher education institutions and a wide range of readers.

330.3:005(063)

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EFFICIENT AGRO-LAND USE IN THE CONDITIONS OF GLOBAL CLIMATE CHANGE

*Ivakhnenko O.M., PhD student,
Department of Marketing,
Sumy State University, Ukraine*

Climate change in recent decades has become a global problem, and the fact of global warming is considered scientifically proven [2, 5, 9, 13]. Already there are negative consequences of climate change: rising global air temperature, rising ocean levels, abnormal weather events and other environmental impacts [6, 7, 8]. It is obvious that such changes have a cardinal impact on the change of weather, which is the most important factor for agricultural producers. Given that the climate has a significant impact on crop formation, the consequences of global warming are threatening - every year the world loses 1 million hectares of arable land [5, 10, 11]. While maintaining the current trend of climate change, in 40 years Ukraine will lose 12-14% of such lands, and EU countries - up to 30% [1, 3, 17]. For Ukrainian farmers, the weather turns from an advantage into an enemy - "spoils" a favourable temperate climate (agricultural climatic zones, over the past 30 years, shifted to the north by almost 200 km) [20, 23]. They face atypical weather phenomena for our latitudes - extreme heat in summer, severe frosts in winter with minimal or no snow cover, reduced rainfall, increased natural disasters (heavy rains, hail, floods, fires). Data on the progress of the harvesting campaign in 2020, according to the analysis of the Ukrainian Club of Agrarian Business, indicate that as a result of arid conditions and lack of soil moisture in almost all of Ukraine there is a reduction in expected crop yields (as a result of premature ripening and drying of plants, the gross harvest of corn will be less than 30 million tons, sunflower - only 12.2 million tons, and soybeans only 2.6 million tons) [12, 18, 19]. The largest reduction in the expected harvest occurred in the southern regions of Ukraine, as well as in Vinnytsia, Kirovohrad, Poltava and Cherkasy regions [14, 15, 16].

How can agrarian business survive under these circumstances? It is necessary to change the conditions for efficient use of land resources and organization of agricultural enterprises [21, 22]. Farmers must adapt crops to new weather conditions - choose more heat-loving and drought-resistant varieties of crops; take into account the reduction of the growing season of their cultivation to prevent crop losses due to premature ripening of plants; use such types of plowing that help retain moisture in the soil, irrigation and mulching; to retain moisture in the soil also use only liquid fertilizers; timely conduct pest control measures, etc. In order to effectively use the favourable aspects of climate change, farmers need to introduce new technologies and environmentally friendly approaches in the process of crop production.

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Наукове видання

СОЦІАЛЬНО-ЕКОНОМІЧНІ ВИКЛИКИ

Матеріали Міжнародної науково-практичної конференції

(Суми, 3–4 листопада 2020 року)

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Посилання на матеріали конференції обов'язкові.

Відповідальний за випуск Т. А. Васильєва

Комп'ютерне верстання С. В. Миненко

Формат 60×84/16. Ум. друк. арк. 29,86. Обл.-вид. арк. 38,58.

Видавець і виготовлювач

Сумський державний університет,

вул. Римського-Корсакова, 2, м. Суми, 40007

Свідчення суб'єкта видавничої справи ДК № 3062 від 17.12.2007.