

**THE IMPACT OF REGIONAL CLIMATE CHANGE ON THE
SUSTAINABLE DEVELOPMENT OF THE AGRICULTURAL SECTOR IN
THE REPUBLIC OF MOLDOVA**

Shova Efimia

PhD student, Moldova State University, Chisinau, Republic of Moldova

E-mail: efimia.sova@gmail.com

In the last two decades, the sustainable development of agriculture in the Republic of Moldova is increasingly addressed both in academic debates and in farmers' associations. The mutual support of these parties directly involved in current research on the one hand and practice on the other are strategic elements in identifying the essential needs of the population, connected to the technological limits on the ability to meet the needs of the present and the future.

Socio-cultural development, political stability, economic growth, and the implementation of effective strategies are needed by the agricultural sector at present, to bring the main branch of development of countries according to high standards in the field of production efficiency.

Efficient management of agro-climatic resources in the context of regional climate change is becoming an important condition for knowing the impact of significant weather and climate risks on the agricultural sector.

Thus, in the context of regional climate change it is important to observe and implement effective measures in the agricultural sector, effectively managing agro-climatic resources in terms of researched meteorological and climate risks, namely: drought, vegetation frosts, torrential and heavy rains, and hail massive.

At present, the socio-economic costs of natural disasters associated with climate change such as those listed above are significant. According to researchers, it is assumed that both their intensity and frequency will increase significantly in the future, which is mainly determined by climate change. The consequences of recent events have been disastrous. As an example, only the droughts of 2007, 2012, 2015, and 2020 caused significant direct losses, estimated at about 1.0-1.25 billion US dollars each.

Recent studies show that climate change is affecting all regions of the world and if extreme weather events and rainfall are becoming more frequent on the other side we are facing extreme heat waves and drought.

The analysis of the potential impact of climate change on the sustainable development of the agricultural sector in the Republic of Moldova is of enormous interest for knowing the mechanism of manifestation of these risks in order to reduce the negative effects.

Keywords: agro-climatic resources, climate risks, regional climate change, significant direct losses.