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## **INFLUENCE OF CLIMATE CHANGE ON YIELD OF AGRICULTURAL CULTURES OF CARPATHIAN REGION**

Now the special attention is focused on the issue of global climate change on the planet on the background of this observed increase in mean annual air temperature, decrease in mean annual precipitation, reducing of soil moisture, etc.

In many scientific publications are no clear data on the impact of global climate change on yields of agricultural plants. Some authors in their publications draw attention to the decline in productivity as a result of climate change, while others indicate the adaptive ability of plants and proper application of agricultural technology and breeding activities.

Thus, the main goal of our work is to analyze the impact of changes in average temperature and rainfall on crop yields in the Carpathian region.

According to the existing statistical indicators of regional hydrometeorology centers we have analyzed changes in average temperature and rainfall in Lviv, Ivano-Frankivsk, Transcarpathian and Chernivtsi regions in the last fifty years. According to the main offices of statistics the dynamic changes in crop yields in four regions of the Carpathian region in the period 1995–2015 are showing.

The obtained results of research have indicated that the increase in temperature and decrease rainfall does not have a negative impact on yield of agricultural cultures.

The rise in the yield of grain and leguminous crops, sunflower, potato, vegetables, fruits and berries are observed, which indicates their adaptability to climate change and balanced management of agronomic and breeding activities.