

4th Global Summit on Earth Science and Climate Change

September 26-27, 2023 | Webinar

Volume : 14

Economic Dynamics of Adapting Climate Smart Agriculture on Sustainable Development Goals

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Climatic transformation, particularly through greater incidence and concentration of climate extremes, is anticipated to negatively influence agriculture and food security, especially in developing countries highly dependent on rain-fed agriculture. Although previous literature Argo-economic growth nexus rarely considered potential sectoral shifts causing increased [disaster risks, socio-economic losses, and environmental problems](#). Therefore, this is an attempt to summarize the economic consequences of adopting [Climate-Smart Agriculture \(CSA\)](#) to attain food security and sustainable growth under climate change. For that purpose, Pakistan can be considered a developing country vulnerable to climate change-associated risks. Afterward, a qualitative approach was employed to determine the severity of the crisis faced by farmers and concerned communities. Furthermore, the optimization technique is suitable, where policymakers try to maximize welfare in current and future scenarios linked with the overall agricultural population. Moreover, this research can be included in analyses of several constraints and preferences of CSA design to apply it to several localities and conditions having numerous implications for [innovation, research, and sustainable development](#)

Biography

Sareer Ahmad is an aspiring economist currently pursuing Ph. D at Quaid-I-Azam University Islamabad, Pakistan, and research is in progress under the supervision of Prof. Dr. Amanat Ali. He holds an M.Phil. degree in economics also from Quaid-i-Azam University Islamabad, Pakistan. An undergraduate degree in economics from the University of Swabi. He participated in different national and international conferences. Now he is working as a Research Associate at the School of Economics, Quaid-I-Azam University Islamabad. His research expertise is in International Economics, Development economics, and Environmental economics. Most of his research work is published on Climate change, environmental degradation, exchange rate, and trade.

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Abstract received : June 19, 2023 | Abstract accepted : June 20, 2023 | Abstract published : 28-09-2023