A Review of Climate Index Insurance in the Field of Agriculture Using the Copula Model

Fiyan Handoyo
Master Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Email: handoyo.fiyan@gmail.com

Sukono, Riaman
Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Email: rusyaman@unpad.ac.id ; sukono@unpad.ac.id

Subiyanto
Department of Marine Science, Faculty of Fishery and Marine Science, Universitas Padjadjaran, Indonesia.
Email: subiyanto@unpad.ac.id

Abdul Talib Bon
Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia
Email: talibon@gmail.com

Abstract
Climate change increases the risk of weather-related disasters in many regions of the world, this has a detrimental economic impact on the agricultural sector. In 1980-1990 and 2004 and 2014 there were annual climate-related disasters, on average causing losses in the agricultural sector of approximately US $ 14M and US $ 100M worldwide. Climate index insurance has been used as a risk transfer in the agricultural sector to provide compensation to farmers, so farmers can maximize agricultural products. This paper goal reviews the methods used in climate index insurance in agriculture based on the Copula model.

Keywords: Climate, Climate index, Climate Index insurance, Copula.

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Biographies
Fiyan Handoyo is a magister student in the Department of Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran, the field of applied mathematics, with a field of concentration of financial mathematics and actuarial sciences.

Sukono is a lecturer in the Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran. Currently serves as Head of Master's Program in Mathematics, the field of applied mathematics, with a field of concentration of financial mathematics and actuarial sciences.
Riaman is a lecturer in the Departemen of Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran. Currently serve as Head of Master’s Program in Mathematics, the field of applied mathematics, with a field of concentration of financial mathematics and actuarial sciences.

Subiyanto is a lecturer in the Department of Marine Science, Faculty of Fishery and Marine Science, Universitas Padjadjaran. He received his Ph.D in School of Ocean Engineering from Universiti Malaysia Terengganu (UMT), Malaysia in 2017. His research focuses on applied mathematics, numerical analysis and computational science.

Abdul Talib Bon is a professor of Production and Operations Management in the Faculty of Technology Management and Business at the Universiti Tun Hussein Onn Malaysia since 1999. He has a PhD in Computer Science, which he obtained from the Universite de La Rochelle, France in the year 2008. His doctoral thesis was on topic Process Quality Improvement on Beltline Moulding Manufacturing. He studied Business Administration in the Universiti Kebangsaan Malaysia for which he was awarded the MBA in the year 1998. He’s bachelor degree and diploma in Mechanical Engineering which his obtained from the Universiti Teknologi Malaysia. He received his postgraduate certificate in Mechatronics and Robotics from Carlisle, United Kingdom in 1997. He had published more 150 International Proceedings and International Journals and 8 books. He is a member of MSORS, IIF, IEOM, IIE, INFORMS, TAM and MIM.