A REVIEW ON INTEGRATION OF MODERN TECHNOLOGY IN RAINFED AGRICULTURE IN MALAWI

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ABSTRACT
Agriculture is the backbone of the Malawi’s economy just as most of the countries in Sub-Saharan Africa. However, its sustenance has been limited to reliance on rainfall, that is Rainfed Agriculture. Despite offering much of cash and food crops, labour and Gross Domestic Product, Rainfed Agriculture is faced by numerous challenges among others the impact of climate change with perceived erratic rainfall. The consequent dry spells have greatly reduced yields, surprisingly modern technological methods are rarely put in place to deal with the challenges regarding Rain Fed Agriculture. There is little effort on capitalising on rain water that may duly fall on the field which can be duly stored and used to ease the dry spells. This Review constitutes 55 published studies and reports from google scholar on Rainfed agriculture highlighting the status of Rainfed agriculture in Malawi and abroad, challenges and resilient measures. Thematic analysis of these studies unearths challenges and resilient measures to rain fed agriculture. This Review observes that the integration of modern agricultural technologies in rain fed agriculture among others supplemental irrigation could be crucial in addressing these challenges.

KEY WORDS: Climate Change, Drought, Rainfed Agriculture, Rainwater Harvesting.

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