

Title	<b>Spatial and Temporal Variations of Rainfall in Cagayan Province</b>
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<p>Abstract</p> <p><i>This study was conducted in order to provide information to the policy makers and farmers on the long-term variations of rainfall as affected by space and time in the province of Cagayan. The rainfall data obtained from the 4 rain gauge stations were tested using double mass curve analysis and were found out to have consistent trends. Tuguegarao Station covered the largest area which is 47.32% and Laoag had the least areal extent of 1.07%. The weighted average depth of annual rainfall at 80% dependability in Cagayan was 1450.53 mm. The optimal number of stations that should exist in the province to be used in estimating the annual rainfall at 10% allowable estimation of error is 2. On the other hand, the minimum length of rainfall record that could provide acceptable and reliable results of analysis related to spatial and temporal variations of rainfall on annual basis is 8 years. Elevation is insignificantly related to rainfall. Wet season starts from June and ends in January while dry season begins from February and ends in the month of May. The regression models developed can be used to predict rainfall data between the stations involved; however these model equations can only be used to estimate the rainfall values within the range of rainfall values used in this study. There were significant differences in the spatial and temporal distributions of rainfall in the province of Cagayan.</i></p>	
<p><b>Keywords:</b> <i>Cagayan, Cropping Calendar, Cropping Pattern, Rainfall, Spatial, Temporal</i></p>	