Pearson III distribution applied on rainfall extreme events

in Santa Maria, RS

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Abstract: The goal of this study was to model extreme events of rainfall through Pearson Type III distribution by means of the Extreme Values Theory in the municipality of Santa Maria, RS. It was concluded that Pearson Type III distribution can be used to provide extreme levels of maximum rainfall.
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Keywords: Extreme Value Theory; Probability; Gumbel Distribution; Rainfall Level; Flood Discharges, Climatology

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