

Abstract

A field experiment was conducted at the UWI field station, during November 2008 to March 2009. The objective was to evaluate the performance of stress sweet peppers (*Capsicum annum* L.) to various level of stimulate under field condition during the rainy season. Four treatments was used 0ml (control), .9375 ml per litre half the recommended rate, 1.875ml per litres (recommended rate) and 3.75 ml per litres twice the recommended rate. The result show that there was no significant difference between treatment means for plant height and leaf area. No significant difference was observed between treatment means for yield components (total fruit yield, average fruit length, average fruit width and average fruit weight). The postharvest marketable yield and percentage fresh weight loss after seven days show no significant difference between treatment means. Mild symptoms of Gemini virus was observed, there were no significant difference between treatment means. The results conclude that there were no significant differences between the control and different rates of stimulate hormone.