Boron in Rice

Study Details

Date: 2018 - 2019

Location: Cuu Long Delta Rice Research Institute, Mekong Delta, Vietnam

Soil: pH of 5.25 and boron content of 0.39 mg kg^{-1}

Fertilizers: The treatments consisted on different boron rates (0, 0.9, 1.3, and 1.5 kg B ha^{-1}) using *Granubor*® as the boron source. Treatments were applied 7 days after rice transplanting.

Crop variety: OM5451

Trial design: Randomized complete block with four repetitions

Results

For both years, the application of 10 kg *Granubor* ha^{-1} (1.5 kg B ha^{-1}) gave the highest rice grain yield compared to the control. In 2018, the control (no boron applied) yielded 3.9 Mg ha^{-1} while the application of 10 kg *Granubor* ha^{-1} yielded 4.3 Mg ha^{-1}. In 2019, the control yielded 6.1 Mg ha^{-1} while the application of 10 kg *Granubor* ha^{-1} yielded 6.7 Mg ha^{-1}.

The lower yield level in 2018 happened due to excessive rain. These results show an average yield increase of 10% by applying 1.5 kg B ha^{-1}.

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