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Effect of a rice, wheat straw and sulphuric acid on plant growth of mung bean (*Vigna radiata* L.)

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The study was carried out to determine effects of rice and wheat straw and/or sulphuric acid incorporated to soil on vegetative growth of mung bean(*vigna radiata* L.) plant at seedling stage. A factorial arrangenment in a Completely randomized design was used with 4 replications there were three levels of rice or wheat straw(0, 5, 10 g/kg soil) and 3 levels of sulphuric acid (0, 2 or 4 g/kg soil)incorporated. Results showed that the root/dry weight and root length were highest in treatments with 10 g/kg of rice or wheat straw. The root dry weight significantly increased in 10 g/kg wheat straw + 2 g/kg sulphuric acid and 5 or 10 g/kg rice straw+ 4 g/kg sulphuric acid. The leaf area of mung bean increased when 10 g/kg of rice straw was incorporated alone or with 2 or 4 g/kg sulphuric acid. Also, the leaf area increased by wheat straw(5 or 10 g/kg)+ 2 g/kg sulphuric acid incorporated to soils. In acid treated soil, rice or wheat straw increased shoot dry weight.

Keywords: Rice, Wheat Straw, Sulphuric acid, growth, mung bean (*Vigna radiata*)

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