**Effects of wood vinegar and cow manure on growth of Khao Dawk Pradoo rice in experimental field**

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**Abstract** **:**

Effects of wood vinegar and cow manure on growth of Khao Dawk Pradoo (KDP) rice in experimental field. The objective of this study is 1. To compare wood vinegar with manure cow manure on growth of KDP . The experiment al was conducted to 6 treatments: 1. No manure, cow manure and wood vinegar (control). 2. cow dung fertilizer rate 1,000 kg / rai and wood vinegar dilution rate 1:20. 3. cow dung fertilizer rate 1,000 kg / rai and wood vinegar diluted 1:40. 4. Wood vinegar diluted 1:20. 5. Wood vinegar diluted 1:40 and 6. cow dung fertilizer at 1,000 kg. / Rai. Completely Randomized Design (CRD) with 3 replications were demonstrated. The result was to found that cow dung consists 1,000 kg / rai. make the height of plant, number of tillers, leaf area, leaf area index is highest on statistically significant. Therefore, wood vinegar at the rate 1:20 and 1:40 with no cow dung and cow dung fertilizer have make the number of tiller and the high of plant at 60 DAP are statistical significantly. In conclusion, the cow dung fertilizer at the rate 1000 kg/rai make highest the number of tillers as 10.66 shoot per tiller at significantly.

**Keywords :** Cow dung , Wood vinegar, Growth , Khao Dawk Pradoo, Native rice