

***Growth Adaptation of Two Variety of Potato (*Solanum tuberosum L.*) on
Shading Implementation: Study of Cultivation Development
in Medium Altitude***

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ABSTRACT

Extensification of potato cultivation needs to be done to reduce the import volume of potato. One of the alternative is potato cultivation in medium altitude. This research aims to develop potato cultivation technology in medium altitude through two potato variety testing and shading implementation. The research was conducted for five months from August 2016 to December 2016. This study uses a randomized complete block design with two factors. The first factor is potato variety consists of two types: Granola Kembang and Atlantic. The second factor is the shading in the form of white waring which consist of three levels: without shading, one-layer shading, and two-layer shading. Data were analyzed by using Analysis of Variance, LSD level 5% and 1%. The experiment showed that the shading implementation gave significant effect () in plant height addition at 10-20 DAP (Day After Planting), leaf total at 30 and 40 DAP, tuber diameter, and also gave highly significant effect (**) in plant height addition at 20-30 DAP. Variety type gave significant effect (*) in leaf total at 20 DAP, bud total, tuber length, and also gave highly significant effect (**) in plant height at 10 DAP, plant height addition at 10-20, 20-30, and 30-40 DAP, leaf total at 30, and 40 DAP, tuber weight and diameter. The interaction between the shading and variety gave significant effect (*) in plant height addition at 20-30 DAP.*

Keywords : *growth adaptation, medium altitude, *Solanum tuberosum L.**