Modifikasi suhu tanah untuk kesesuaian tumbuh tanaman soba

Buckwheat is a subtropical crop which produces flour, it can be grown well in tropical region at upland but lowland which has higher air temperature the growing is suppressed with lower yield. An attempt has been done to modify soil temperature buckwheat cultivation and to analyze the influence of different soil temperature pattern to the root growth and the yield of buckwheat. The experiment was conducted during April-July, 2003 at Ciawi, Bogor district which located at 400 m above sea level. The Split Plot Design with three replications was employed with the main plot was two population densities, viz no mulch (M0), straw mulch (M1), and a sheet of transparent plastic (M2). Two cultivars of buckwheat, viz Kitawasesoba (V1) and Hitachi Akisoba (V2) were planted in sequence. The results showed that the soil temperature under M2 always the highest, while the lowest was under M0 in the morning and under M1 during noon and afternoon. There were no interaction between population densities and mulch to the yield. The straw mulch of M1 produced the highest yield of 2.60 ton ha\(^{-1}\) and 3.42 ton ha\(^{-1}\) for Kitawasesoba and Hitachi Akisoba, respectively.

Sumber: repository.ipb.ac.id