Response of Seven Hybrid Chilli Cultivars at Different Altitudes with Local Specific Organic Amendment Planting in Off-Season

Lily Agustina[1]

Agronomy Department Agriculture Faculty Brawjaya University.Veteran street Malang East Java Indonesia and Head of Doctoral Programme Study of Organic Agriculture and Food System in The Interdiciplinary Post Graduate Programme Brawijaya University. MT Haryono 169 Malang East Java Indonesia. E-mail:lily_organic@yahoo.co.id.

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ABSTRACT

Usually chilli is cultivated at dry season but the price is lower compared to in off-season (rainy season).The most problem to cultivate chilli in off-season is high insect and disease infection. To get the best yield depend on the interaction between genetic and environment factor. Field experiments were conducted by cultivated seven hybrid chilli cultivars (Omega, Gada, Horison, Jet Set, Hot Beauty, Restu, and Hot Chilli) at low, medium altitude with local specific organic amendment and high altitude with synthetic chemical fertilizer in off-season. The treatment were laid out in Randomized Complete Block Design with four replications at each altitudes. Results have shown that yield differed significantly among the chilli cultivars at low and high altitude but at medium altitude is non sigficantly difference. Based on the yield/ha ,the cultivars which can be developed at low altitude are Omega , Gada, and Horizon, at medium altitude were Hot Chilli and Gada, and at high altitude is Gada and Hot Chilli. At high altitude, total plant dead among cultivar was high (44.54 – 72.66 %) due to high rate bacterial wilt infection consequently in general the yield/ ha is very low.