Abstract

This research was intended to evaluate the yield of 14 chili pepper lines from Plant Breeding Program, Department of Agronomy and Horticulture, IPB, and then compare them with five commercial varieties. This research was done from February until July 2011 in Boyolali, Central Java.

Plant material was used to this research were 14 chili pepper lines, that were IPB001004, IPB002001, IPB002003, IPB002005, IPB002046, IPB009002, IPB009003, IPB009004, IPB009019, IPB015002, IPB015008, IPB019015, IPB010005, and IPB120005, and then five commercial varieties as comparator, that were Tombak, Gelora, Tit Super, Trisula, and Lembang 1 variety. This research was arranged in Randomized Complete Block Design with three replications.

The result showed that IPB009004 was identified as line with the first early flowering as compared with all of commercial varieties except Tombak. Days to harvesting of IPB002005 was earlier than Tombak, Gelora, and Trisula. IPB009004 line had a lot of chili pepper’s fruit than Tombak, Gelora, and Trisula. Line of IPB009003 had a number of totally weight and productivity was bigger as compared with Lembang 1.

Keywords: chili pepper, yield evaluation, Boyolali