

**Planting Distance Test And Lines (Pre-commercial) To The Production And
Quality of Maize Seed (*Zea mays L*)**

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ABSTRACT

This research aims to investigate the effect of planting distance and line (Pre-commercial) on production and seed quality of hybrid maize. The materials used was Urea, Phonska, KCl, pesticides, and maize seeds line (Pre-Commercial) SYN 01 and SYN 02. This research was conducted on August-November 2018 at PT. Syngenta Seed Indonesia field research, Kanigoro Village, Pagelaran, Malang Regency. It was applied factorial split plot design with 6 treatments and 3 replications. The main plot was line (Pre-Commercial) and the sub plot was planting distance. The data was analyzed by F test (ANOVA) 5% and followed by LSD 5%. The result of this research show that planting distance is non-significant for parameter male flowering time, significant for parameter female flowering time, fresh weight of corncob per plot and land productivity (ton/ha). While, (Pre-Commercial) line is significant for parameter small size seed distribution (%), discard seed (%), height of plant, medium size seed distribution (%), big size seed distribution (%), and weight of 1000 seeds. There is an interaction on parameter weight of corncob per plot and land productivity (ton/ha).

Keyword : Line, Maize, Planting Distance