THE SUPERIORITY TEST OF MELON (*Cucumis melo* L.) CANDIDATE VARIETIES MELDO UPNVY1 AND MELDO UPNVY2 IN THE SUBSTRATE IRRIGATED HYDROPONIC SYSTEM

By : Zafeena Devi Nastiti

Supervised by : Bambang Supriyanta

ABSTRACT

The availability of superior melon seeds in Indonesia still relies on imports to fulfill it. Melon Meldo UPNVY1 and Meldo UPNVY2 are candidates for superior varieties produced by breeders of the Faculty of Agriculture UPN "Veteran" Yogyakarta. This study aims to test the superiority of 2 Meldo melon candidate varieties with 8 comparison varieties. The study used a single-factor Completely Randomized Design (CRD) method with 3 replications consisting of 10 treatments, namely 2 candidate test varieties Meldo UPNVY1 and Meldo UPNVY2 and 8 comparison varieties namely Taj Mahal, Sweet D-25, Silver Light, Golden Apollo, Honey Globe, Golden Langkawi, Dalmation, and Alisha. Data were analyzed using variance analysis (ANOVA) at the 5% level and further tested using the DMRT test. Meldo UPNVY1 leaf shape characters are trilobate, elliptical fruit shape, oval seed shape, yellow fruit skin color (5Y 8/12), yellowish white fruit flesh color (2.5GY 8/4), green fruit spot color (2.5GY 6/8), and with superiority in growth variables. Meldo UPNVY2 leaf shape characters are entire, elliptical fruit shape, oval seed shape, yellow-green fruit skin color (5Y 8/12), green-white fruit flesh color (2.5GY 8/2), green fruit spot color (5GY 4/4), and with superiority in yield and fruit quality variables.

Keywords: superiority test, substrate hydroponic, melon