

SELECCIÓN DE LÍNEAS PROMISORIAS DE NARANJILLA PARA MEJORAR LA CALIDAD DE LA FRUTA

Silva, Wilson ^a; Gómez, Paúl ^b; Viera, William ^{c*}; Sotomayor, Andrea ^c; Viteri, Pablo ^c; Ron, Lenin ^d

^a Universidad Estatal Amazónica, Carrera de Ingeniería Agropecuaria, Km 2 1/2 vía Puyo a Tena, Ecuador

^b Instituto Nacional de Investigaciones Agropecuarias, INIAP, Granja Experimental Palora, Vía Santa Ana, km 3 1/2, Palora - Morona Santiago

^c Instituto Nacional de Investigaciones Agropecuarias, INIAP, Programa Nacional de Fruticultura, Granja Experimental Tumbaco, Av. Interoceánica km 15, Tumbaco, Ecuador

^d Universidad Central del Ecuador, Facultad de Ciencias Agrícolas. La Morita, Quito - Ecuador

Ingresado: 14/07/2015

Aceptado: 01/04/2016

SELECTION OF PROMISING NARANJILLA LINES TO IMPROVE FRUIT QUALITY

Abstract

Evaluation of Naranjilla progenies (*Solanum quitoense* Lam.) from interspecific crosses, aimed to select individuals with high productivity and commercial fruit quality, which are potential candidates for the generation of new varieties. This research was carried out at the experimental farm Palora from INIAP, in the province of Morona Santiago. Nine groups of segregants were evaluated, highlighting the Group 1 to achieve the best average performance (4.68 kg/plant) and a good average fruit weight (134.04 g); group 10 obtained 100% of fruits showing dark green flesh; in groups 6 and 8 there were individuals showing a high percentage of Brix degrees. In general, it was observed that there was variability in the expression of characteristics evaluated between groups and within them; consequently, a selection of individuals instead of groups is most appropriate. This variation is attributed in a good percentage to the genetic of the segregating population, constituting this aspect an important factor in breeding purposes of this crop.

Keywords: breeding, genetic component, mixed linear model, quality, yield.

* Correspondencia a: Instituto Nacional de Investigaciones Agropecuarias, INIAP, Programa Nacional de Fruticultura, Granja Experimental Tumbaco, Av. Interoceánica km 15, Tumbaco, Ecuador. Teléfono: +(593) 2 2301057. e-mail: william.viera@iniap.gob.ec