Selection trial varieties was conducted by three steps basic testing in Binh Dinh and Khanh Hoa province. The experiment basic testing were carried out from January, 2012 to March, 2014 with two seasons (plant and 1st ratoon). It was designed as random completion block designed (RCBD) with three replicates, seven treatments, control variety, My5514. The promise varieties in basic trail was evaluated by trial production and selected excellent varieties to perform. The result showed that VN09-108 is the most promising variety and suitable drought climate condition in Binh Dinh and Khanh Hoa province, carried sugarcane yield mean achieve above 80 tonnes/ha, CCS achieve from 11.35 to 12.33%, sugarcane 10 CCS’ yield is higher than control variety from 15 to 31%.

**Key word:** Trial testing comparison, cane variety selection, with high yield and commercial cane sugar (CCS,).