Field Evaluation of Different Coffee Cultivars *(Coffey sp.)* Against Infestation of Coffee Berry Borer *(Hypothenenutshampei* Ferrari)

M.A.Dishan[1]*, M.K.S.R.D.Samarasingha[2], A.N.R.Weerawansha' and L.M.H.R.Alwis[1]

'Export Agriculture Department, Uva Wellassa University, Badulla, Sri Lanka
[2]Central Research Station,Department of Export Agriculture,Matale, Sri Lanka

One of the major constraints to coffee production throughout the world is the damage caused by the Coffee Berry Borer (CBB), *Hypothenemushampei* (Ferrari). **The** first report of the occurrence of **CBB** appears to be that of 1935 in Rathnapuradistrict in Sri Lanka. It is now prevalent in all areas, at varying degree of damage to both Arabica and Robusta coffee. Damage on coffee berries bribs in heavy losses on economical production of coffee in developing countries, including Sri Lanka.The objective of this study wasto identify the infestation level of **CBB** in six selected coffee cultivars and to assess the CBB populations in coffee fields. Six selected coffee cultivars were,Catimour, S4711, **HDT** of Arabica species and **IMY,** CCI, BS5 of Robusta species. The experiment was laid out in randomized complete block design, with six treatments and three blocks. Damage severity was recorded on fifty-four tagged coffee plants. Ten branches were selected for a coffee plant where each branches contained more than fifty berries. Data were collected on the same berry cluster, during three months at weekly intervals. Starting from zero damaged berries, diameter of coffee berry was measured by using a VernierCalliper (0.1mm). Ninety coffee berries were randomly selected from each of Arabica and Robusta for measurements. The data were recorded continuously during the three months at weekly intervals. The results showed that there were significant **CBB** damage differences among the coffee cultivars. Among **the selected** cultivars BS_5 was the least damage by CBB and HDT was the most susceptible cultivar and 54711 was also found to be susceptible but to a lesser extent. Berry Borer population is high in Arabica field than in Robusta field. When the diameter of the coffee berry increase, the level of infestation of CBB also increases.

Keywords: Coffee Berry Borer, infestation, *Hypothenemushampei* Ferrari