

EVALUATION OF HONEY QUALITY WITH RESPECT TO NICOTINE CONTENT IN URAMBO AND SAME DISTRICT

Donatha Raphael Dunda¹, Elimboto Ibrahim Muna², Innocent Ilomo², Amon Joel Philip², Erick Anthony Zawadi² & Magdalena Raphael Ntasilwa²

Research Scholar, Tobacco Research Institute of Tanzania, Tanzania

Received: 04 Feb 2022

Accepted: 21 Mar 2022

Published: 23 Mar 2022

ABSTRACT

*The study was done to evaluate the quality of honey with respect to nicotine content from tobacco growing and non-growing areas with assumption that nicotine from tobacco crop may affect the quality of honey. Specifically the study was done order to, identify if tobacco is among the bees fodder and to determine the presence and source of nicotine in honey from tobacco and non -tobacco growing area. The study was done in Urambo and Same. Bees fodder was identified in each area and honey sample from same and Urambo were collected and analyzed. The results shows that honey from both areas contained levels of nicotine however the level of Nicotine found was within the allowable level for human health and it was not significant difference between the samples at ($P > 0.05$) using T-test. In identification of bee fodders from Urambo and Same tobacco was not among the bees fodder. This study concludes that the traces of nicotine in the honey samples does not originate from tobacco crop, as tobacco was not among the bee fodders identified. The traces might have been originated from the bees fodder plant which contains alkaloids such as *Tamarindus indica*, *Acacia mellifera*, *Syzygiumguineense*.*

KEYWORDS: *Honey, Bees Fodder, Nicotine, Tobacco*