

MANAGEMENT SCENARIO OF TERMITES IN MANGO ORCHARD THROUGH BOTANICAL INSECTICIDES IN OROMIA REGION, WESTERN ETHIOPIA

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ABSTRACT : The experiment on the effectiveness of botanicals against termites was conducted during 2012 in the mango orchard at Green Focus Ethiopia Ltd., Nakemte, Western Ethiopia. Treatments were arranged in Randomized Complete Block Design with three replications and applied four times in a year at three months interval in January, April, July and October. Among botanical concentrations, NSKE 10% was recorded as the best treatment in terms of percent reduction of termite population during entire observational period followed by vetiver 20% over control. Whereas, vetiver 20% was the best in terms of yield (59.00Kg/tree) followed by NSKE 10% (57.67 Kg/tree) and lowest yield (32.67Kg/tree) was recorded in control plot. Future study is needed to develop commercial formulations of the tested botanicals especially on vetiver and *Millettia ferruginea* against termites which may be affordable to the farmers at reasonable price.

Key words : Mango, Termite *Azadirachta indica*, *Millettia ferruginea*, NSKE, *Vetiveria zizanioides*.