

DETERMINANTS OF ADOPTION OF IMPROVED BEEKEEPING TECHNOLOGIES IN WEST SHEWA AND OROMIA SPECIAL ZONE SURROUNDING FINFINE, OROMIA REGIONAL STATE, ETHIOPIA

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ABSTRACT

Improved technologies in beekeeping have brought over decades in Ethiopia. However, it has been observed that improving the rural household income by adopting modern beekeeping technologies is still a challenge. This is due to the relative slow adaption rates of the new technologies. Therefore, this study was, designed to find out the determinant factors of adoption of improved technologies in beekeeping and identifying the major constraints of beekeeping production in the study area. A total of 120 farmer households were randomly selected from the two zones. Semi-structured questionnaires used for gathering the primary data. The data gathered was analyzed using SPSS version 22. The study result showed that from the total sampled households, 56.7 % of the households are adopted improved Beekeeping technologies and the remaining 43.3% did not adopt yet. A logit model result revealed that adoption is positively affected by extension services, awareness, and livestock holding whereas absconding is negatively affected. So, farmers alertness on beekeeping technologies and extension advice should be strengthened. In addition, having some financial sources like livestock holding could support the adoption. So, encouraging in supplement income generating activity beside beekeeping activity is better, this make easy for input purchase for starting beekeeping business. In general, efforts should be put into empowering the farmers with knowledge and skills, ensuring availability of modern technologies, and increasing the beekeepers' awareness on the technologies. The main challenges being hindering the bee product were: Agro chemical application, pests, and lack of improved beekeeping materials among other challenges. So, special attention on solution for anti-bee chemical application, bee pests and predators, and other causes of colony deterioration should get in thoughtfulness.

KEYWORDS: *Adoption, Beekeeping, Determinants, Improved Technologies*