

Impacts of Extension Services on Stingless Bee Production and its Profitability and Sustainability in Malaysia

Authors : Ibrahim Aliyu Isah, Mohd Mansor Ismail, Salim Hassan, Norsida Bint Man

Abstract : Global and National contributions of Extension Agents in income derive through stingless beekeeping production as acknowledged globally as a new source of wealth creation, which contributes significantly to the positive, sustainable economic growth of Malaysia. A common specie, *Trigona itama*, production through effective utilization of highly competent agents of extension services led to high increase of output that guaranteed high income and sustainability to farmers throughout the study areas. A study on impacts of extension services on stingless bee production and its profitability and sustainability in both Peninsular Malaysia and East (Sarawak) Malaysia was conducted with the following objectives: (i) to examined various impacts of extension services on sustainability as variables in enhancing stingless beekeeping production for positive profitability. (ii) to determine the profitability and sustainability of stingless beekeeping production in the study area through transfer of technology and human resources development. The study covers a sample of beekeepers in ten states of Peninsular Malaysia and Sarawak. The sample size of 87 respondents were selected out of the population and 54 of filled questionnaires were retrieved. Capital budgeting analysis was carried out and economic performance was evaluated. Data collected was analysed using SPSS version 23.0. Correlation and Regression analyses were used. The capital budgeting analysis and government incentive schemes was incorporated in the applied projection of stingless bee farms. The result of Net Present Value (NPV) is determined as an accepted projection to the financial appraisal. The NPV in the study indicated positive outcome of production that can generate positive income and indicated efficient yield of investment and Profitability index (PI). In summary, it is possible for the extension services to increase output and hence increase profit which is sustainable for growth and development of agricultural sector in Malaysia.

Keywords : extension services, impacts, profitability and sustainability, Sarawak and peninsular Malaysia, *trigona itama* production

Conference Title : ICAB 2024 : International Conference on Apiculture and Beekeeping

Conference Location : Singapore, Singapore

Conference Dates : July 04-05, 2024