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Submission date: 03-Feb-2024 08:43AM (UTC-0500)

Submission ID: 2285253436

File name: Turnitin_Siti_Abir_Wulandari_1.doc (145.5K)

Word count: 6225

Character count: 33802

Rejuvenation; Influencing Factors That Farmers Should Consider

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ABSTRACT

One of the impacts of the replanting program is the cessation of production, which has implications for the loss of farmers' household sources of income. The production cycle in the business of annual crops greatly affects the profit that will be obtained by the farmer. More complicated challenges are faced by perennials than annuals because the time between investment, production, cost, and receipt of farming takes a long time in its implementation. This cross-sectional survey research aims to analyze the problems and socio-economic factors that determine the decision of oil palm farmers to participate in the rejuvenation of oil palm plantations in Jambi Province. This research was carried out in several villages which centered of smallholder oil palm plantations with a sample of 257 oil palm farmers who had old or damaged oil palm plants that had not been replanted or had been replanted. The respondents were selected by using the multistage sampling method. The instrument used is an open-ended questionnaire. The results showed that the farmer's level of readiness, assets, family size, dependency burden, sex ratio, and perception have a significant influence on the farmer's decision to replant oil palm.

KEYWORDS

Farmer; Palm oil; Rejuvenation; Sustainability

INTRODUCTION

Palm oil is a plantation commodity that contributes to the country's largest foreign exchange, which has a high economic value compared to other plantation commodities. The development of oil palm crops began to creep to an area of 200,000 Ha in the early 1980s, but until now the area of oil palm plantations reached 14.72 million Ha in 2019 (BPS, 2020). From an area of 5.8 million Ha of smallholder oil palm land nationally (41% of the total area) there are 2.4 million Ha of which need to be rejuvenated. The government's commitment to replant smallholders' palm oil through The Indonesian Oil Palm Plantations Fund Management Agency (BPDPKS) by allocating funds of Rp. 5,567 trillion to fulfill the target of smallholder oil palm replanting in 2021, covering an area of 180,000 Ha throughout Indonesia (Haryo Limanseto, 2021). This was done because there was an inequality between the targets launched in replanting smallholder oil palm and the realization of achievements. Of the 180,000 hectares declared for rejuvenation, only 58,000 hectares have been realized throughout Indonesia in the last five years (Alika, 2020).

With the black campaign on oil palm plantations, many parties have stated that oil palm plantations are not environmentally friendly because they cause deforestation of forests because so far the increase in Indonesia's palm oil production has been carried out by expanding oil palm plantation land (extensification). This extensibility activity will be limited in the future because, in addition to the increasingly limited availability of land, this activity also incurs social and ecological costs so it is not sustainable anymore. However, oil palm is a perennial crop with a > 25-year life cycle and an exceptionally low land footprint compared to annual oilseed crops (Faaid et al., 2020; Murphy et al., 2021). Two strategies to increase

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