

CREDIT RATIONING OF FARM HOUSEHOLDS AND AGRICULTURAL PRODUCTION: EMPIRICAL EVIDENCE IN THE RURAL AREAS OF CENTRAL SULAWESI, INDONESIA

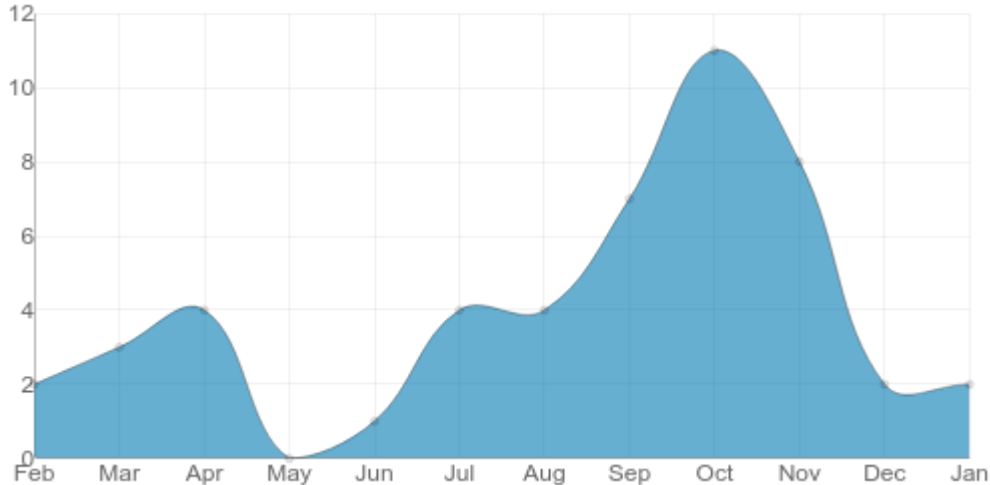
Nunung Nuryartono

DOI: <https://doi.org/10.17358/jma.4.1.15-21>

Abstract

The agricultural sector provides the highest contribution to economic development in the Central Sulawesi Province, Indonesia. On average, the share of agriculture in the Product Domestic Regional Bruto (GRDP) is more than 40% (2003). However, poverty is a widespread problem found in this area, as indicated by almost 46% of the total household are categorized as poor and most of them are farmers. Smallholders and poor farmers may perpetually be trapped in poverty due to lack of finance needed to undertake productive investment. This is indicated by lower rate of advance agricultural technology adoption, which results the productivity of some agricultural products in this area is lower compared to the national average. This paper addresses the question of whether greater access of financial services increase agricultural production. Specific research question addressed are as follow: (1) How many household have access to formal credit markets? (2) How many households are credit constrained? (3) What factors influence that households are credit constrained? (4) How does credit rationing influences agricultural production? As many studies have shown, many rural households lack access to either formal or informal credit institutions. In the rural areas of Central Sulawesi Province, particularly in the vicinity of the Lore Lindu National Park only 21.5% of the household have access to formal credits. The results also show that under certain conditions, only 18.1% of the households are not credit constrained. Most households are credit constrained due to lack collateral and because of the self-selection problem. The econometric analysis consists of two parts. The first part explores the determinants for a household to be credit constrained, focusing on the formal credit market by using Probit model. In the second part of the analysis, we investigate the influence of being credit constrained on the rice production by applying a switching regression model. The results of the probit model show that human capital (i.e. education and age of the head of households) as well as wealth and risk-bearing indicators are significant in determining whether household is credit constrained.

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[Vol. 4 No. 1 \(2007\): Vol. 4 No. 1 Maret 2007](#)

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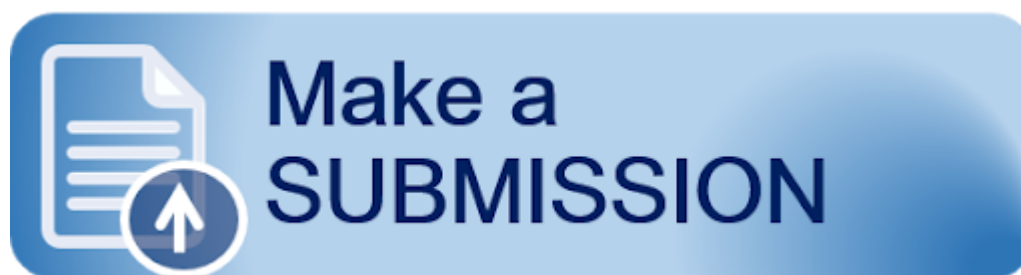
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Nuryartono, N. (2011). CREDIT RATIONING OF FARM HOUSEHOLDS AND AGRICULTURAL PRODUCTION: EMPIRICAL EVIDENCE IN THE RURAL AREAS OF CENTRAL SULAWESI, INDONESIA. *Jurnal Manajemen Dan Agribisnis*, 4(1), 15-

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Nomor 36/E/KPT/2019

Peringkat Akreditasi Jurnal Ilmiah Periode VII Tahun 2019

Nama Jurnal Ilmiah

Jurnal Manajemen & Agribisnis

E-ISSN: 24072524

Penerbit: School of Business, Bogor Agricultural University (SB-IPB) associated with Indonesian Society of
Agricultural Economics (PERHEPI/ISAE)
Ditetapkan Sebagai Jurnal Ilmiah

TERAKREDITASI



TERAKREDITASI PERINGKAT 2

Akreditasi Berlaku Selama 5 (lima) Tahun, Yaitu
Volume 16 Nomor 1 Tahun 2019 sampai Volume 20 Nomor 2 Tahun 2023

Jakarta, 13 Desember 2019

Direktur Jenderal Penguatan Riset dan Pengembangan



Dr. Muhammad Dimiyati
NIP. 195912171984021001

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