

AGRARIS

Journal of Agribusiness and Rural Development Research

e-ISSN: 2527-9238

ISSN: 2407-814X

Vol.10 No. 2

Farmer Assessment of the Effectiveness of Empowerment Strategies to Increase Farming Profits

SRI HANGGANA

Effect of Risk Management Practices on Production of Seaweed Farming: Evidence from Takalar, South Sulawesi, Indonesia

ANNA FARIYANTI, ANISA DWI UTAMI, ALFIRA YANAMISRA, VANESHA MIRANDA, YANTI NURAENI MUFLIKH, RAHMAT YANUAR, SUPREHATIN SUPREHATIN

Does The Greenhouse Adoption Improve Farmers' Welfare? Evidence from Melon Farmers in Indonesia

NUHFIL HANANI AR, MOH SHADIQUR RAHMAN, HERY TOIBA, FITRIA DINA RIANA, FAHRIYAH FAHRIYAH, MOHAMMAD ILYAS SHALEH, MOHAMMAD WAHYU FIRDAUS, MAHFUDLOTUL 'ULA, DWI RETNONINGSIH, WIWIT WIDYAWATI

Business Sustainability Analysis of the Social Forestry Program in West Sumatra Province

DWI RACHMINA, HERAWATI, FERYANTO, MAHDI, RULIANDA PURNOMO WIBOWO, ZEDNITA AZRIANI

How Warm-Glow, Economic, Environmental, and Health Motives Influence Farmers' Satisfaction in Practicing Organic Farming in Java, Indonesia

MUNTORO, IRHAM IRHAM, JANGKUNG HANDOYO MULYO, ANY SURYANTINI

Holistic Sustainability Assessment of Certified Organic, Non-Certified Organic, and Non-Organic Rice Farming Practices Using SAFA Framework in Sleman Regency, Indonesia

SUKRON ROMADHONA, SRI PURYONO, MUSSADUN, SITI RACHMAWATI

PESTEL Analysis of Smallholder Wool Producers for Improved Efficiency and Rural Livelihoods: A Case Study of The South African Wool Value Chain

ALINA NTSIAPANE, JAN SWANEPOEL, AZWIHANGWISI NESAMVUNI

Vol.10.2 July-December 2024



9 772407 814009

Indexed by: **Scopus**®  **SINTA**
Science and Technology Index



AGRARIS

Journal of Agribusiness and Rural Development Research

ISSN

9772407814009



Vol. 10 No.2 July-December 2024

AGRARIS is a periodical scientific journal on Agribusiness and Rural Development. AGRARIS is published biannually (January – June and July – December) by Universitas Muhammadiyah Yogyakarta (UMY) and managed by the Department of Agribusiness, Faculty of Agriculture UMY in collaboration with the Agribusiness Association of Indonesia (AAI) and Indonesian Society of Agricultural Economics (ISAE). AGRARIS was indexed in Scopus (Q3) and got Science and Technology Index (SINTA) 1.

Editorial Team

EDITOR IN CHIEF

Dr. Ir. Widodo, M.P.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta, Indonesia (Scopus ID: 57215538283)

ADVISORY INTERNATIONAL EDITORIAL BOARD

Dr. Ammar Abdul Aziz

School of Agriculture and Food Sciences, The University of Queensland, Australia (Scopus ID: 57191076222)

Assoc. Prof. Dr. Juwaidah Sharifuddin

Department of Agribusiness and Bioresource Economics, Universiti Putra Malaysia, Malaysia (Scopus ID: 55915859300)

Prof. Masateru Senge

United Graduate School of Agricultural Science, Gifu University, Japan (Scopus ID: 57201942114)

Dr. Anidah Robani

Institute of Technology Management & Entrepreneurship, Universiti Teknikal Malaysia Melaka, Malaysia (Scopus ID: 55655498600)

Dr. Pakapon Saiyut

Department of Agricultural Economics, Khon Kaen University, Thailand (Scopus ID: 57197711505)

EDITORIAL BOARD

Prof. Dr. Muhammad Firdaus, S.P., M.Si.

Department of Economic, IPB University, Indonesia (Scopus ID: 57204838013)

Dr. Triyono, S.P., M.P.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta, Indonesia (Scopus ID: 57193756455)

Suprehatin, SP, MAB, Ph.D.

Department of Agribusiness, IPB University, Indonesia (Scopus ID: 57220105545)

Dr. Susanawati, S.P., M.P.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta, Indonesia (Scopus ID: 57194276960)

Subejo, S.P., M.Sc., Ph.D.

Department of Extension and Communication, Universitas Gadjah Mada, Indonesia (Scopus ID: 57191036623)

Dr. Ir. Indardi, M.Si

Department of Agribusiness. Universitas Muhammadiyah Yogyakarta, Indonesia (Scopus ID: 57208466949)

Dr. Abdul Mutolib

Department of Agribusiness, Siliwangi University, Indonesia (Scopus ID: 57191584252)

Zuhud Rozaki, S.P., M.App.Sc., Ph.D.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta, Indonesia (Scopus ID: 57192575625)

ASSISTANT EDITOR

Heri Akhmadi, S.P., M.A.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta,
Indonesia (Scopus ID: 57221847740)

Muhammad Fauzan, S.P., M.Sc.

Department of Agribusiness, Universitas Muhammadiyah Yogyakarta,
Indonesia (Scopus ID: 57203142471)

Address

Secretariat of AGRARIS: Journal Agribusiness and Rural Development Research

Ground Floor of F3 Building (Siti Walidah Building)

Jl. Brawijaya, Tamantirto, Kasihan, Bantul,

D.I. Yogyakarta, Indonesia 55183

Telp.0274-387656 (ext.201)

Fax. 0274-387646

e-mail: agraris@umy.ac.id

WA: +62 853-2873-7828

Table of Contents

AGRARIS: Journal of Agribusiness and Rural Development Research Vol. 10 No. 2 July-December 2024

| | |
|---|---------|
| Editorial Team | I |
| Table of Contents | III |
| Preface | IV |
| Manuscript Guidelines | IV |
| Article | |
| Farmer Assessment of the Effectiveness of Empowerment Strategies to Increase Farming Profits Sri Hanggana..... | 156-172 |
| https://doi.org/10.18196/agraris.v10i2.79 | |
| Effect of Risk Management Practices on Production of Seaweed Farming: Evidence from Takalar, South Sulawesi, Indonesia Anna Fariyanti, Anisa Dwi Utami, Alfira Yanamisra, Vanesha Miranda , Yanti Nuraeni Muflikh, Rahmat Yanuar, Suprehatin Suprehatin..... | 173-197 |
| https://doi.org/10.18196/agraris.v10i2.434 | |
| Does The Greenhouse Adoption Improve Farmers' Welfare? Evidence from Melon Farmers in Indonesia Nuhfil Hanani AR, Moh Shadiqur Rahman, Hery Toiba, Fitria Dina Riana, Fahriyah Fahriyah, Mohammad Ilyas Shaleh, Mohammad Wahyu Firdaus, Mahfudlotul 'Ula, Dwi Retnoningsih, Wiwit Widyawati..... | 198-214 |
| https://doi.org/10.18196/agraris.v10i2.416 | |
| Business Sustainability Analysis of the Social Forestry Program in West Sumatra Province Dwi Rachmina, Herawati, Feryanto, Mahdi, Rulianda Purnomo Wibowo, Zednita Azriani..... | 215-235 |
| https://doi.org/10.18196/agraris.v10i2.550 | |
| How Warm-Glow, Economic, Environmental, and Health Motives Influence Farmers' Satisfaction in Practicing Organic Farming in Java, Indonesia Muntoro, Irham Irham, Jangkung Handoyo Mulyo, Any Suryantini | 236-255 |
| https://doi.org/10.18196/agraris.v10i2.359 | |
| Holistic Sustainability Assessment of Certified Organic, Non-Certified Organic, and Non-Organic Rice Farming Practices Using SAFA Framework in Sleman Regency, Indonesia Sukron Romadhona, Sri Puryono, Mussadun, Siti Rachmawati..... | 256-278 |
| https://doi.org/10.18196/agraris.v10i2.415 | |
| PESTEL Analysis of Smallholder Wool Producers for Improved Efficiency and Rural Livelihoods: A Case Study of The South African Wool Value Chain Alina Ntsiapane, Jan Swanepoel, Azwihangwisi Nesamvuni | 279-295 |
| https://doi.org/10.18196/agraris.v10i2.667 | |

Preface

Bismillahirrahmaanirrahiim. AGRARIS: *Journal of Agribusiness and Rural Development Research* Vol. 10 No. 2 (July-December 2024) has been published. This edition consisted of nine research articles which came from three focuses and scopes: agricultural economics; agricultural extension, communication and education; and sustainable agriculture.

The study about agricultural economics discussed Effect of Risk Management Practices on Production of Seaweed Farming: Evidence from Takalar, South Sulawesi, Indonesia (Fariyanti et al.); Does the Greenhouse Adoption Improve Farmers' Welfare? Evidence from Melon Farmers in Indonesia (Hanani AR, et al.); and PESTEL Analysis of Smallholder Wool Producers for Improved Efficiency and Rural Livelihoods: A Case Study of The South African Wool Value Chain (Ntsiapane et al.). In sustainable agriculture consisted of Business Sustainability Analysis of the Social Forestry Program in West Sumatra Province (Rachmina, et al.); How Warm-Glow, Economic, Environmental, and Health Motives Influence Farmers' Satisfaction in Practicing Organic Farming in Java, Indonesia (Muntoro et a.) and Holistic Sustainability Assessment of Certified Organic, Non-Certified Organic, and Non-Organic Rice Farming Practices Using SAFA Framework in Sleman Regency, Indonesia (Romadhona, et al.). The last study about agricultural extension, communication and education discussed Farmer Assessment of the Effectiveness of Empowerment Strategies to Increase Farming Profits (Hanggana). The various studies had been written from two countries that were Indonesia and Japan.

The various research findings are expected to be a basis for stakeholders and policymakers who relate to the broader field of agricultural development and encourage the advancement of novel ideas for future studies. Lastly, we express our appreciation to all individuals who have made valuable contributions to the completion of this journal publishing, involving the authors, expert reviewers, and editors.

Yogyakarta, Indonesia December 2024
Editor in Chief

Dr. Ir. Widodo, M.P.

Manuscript Guidelines

Manuscript Submission Criteria:

1. The manuscript is a result of agribusiness and rural development research. The manuscript should have a novelty/authenticity contribution or uniqueness for academic (science) development.
2. The manuscript contains original research work, free from plagiarism and other unethical attitudes.
3. The author must ensure that the manuscript has not been published in the other periodical journals at the time of manuscript submission.

Manuscript Systematics:

1. Title. The title should be brief, describe the uniqueness of the research, not exceeding 20 words, and should begin with a capitalized letter for each word.
2. Author's name and affiliation. The author's name should be included by affiliation (write completely) and email address, without the academic title.
3. Abstract. The abstract is written in English, one paragraph with single spacing (maximum 250 words) without references or formulas. Keywords consist of 3-5 words or phrases (alphabetically). The abstract contains a brief description of the research background (maximum two sentences), aims, methods, main results, and conclusion.
4. Introduction. The introduction is written without numbers and/or pointers. This section consists of (i) nature and scope of the problem in a broader (national, regional, international) context, (ii) review of relevant literature, (iii) significance/novelty/contribution of this research on knowledge, (iv) aims of this research. If there is a hypothesis, declare it explicitly and not in an interrogative sentence. It should be written efficiently and supported by references. Extensive discussion of relevant literature should be included in the discussion, not in the introduction.
5. Research Method. This section should explain how the research was conducted. It should be written clearly and completely containing a clear description of (i) population and sampling, (ii) data measuring and collecting, (iii) variable and data analysis. This research method should be sufficiently detailed. For qualitative research, please adjust this method to scientific writing habits while considering the repeatability of the research. It was unnecessary to write analysis methods commonly (e.g., F-test formula, t-test) but just referred to your source. References for original methods/procedures must be stated, and all modifications of procedures (if any) should be explained. Symbol description of the model was suggested to be written on narration.
6. Result and Discussion. The beginning of the results and discussion presents the data and found facts, calculated, and discovered. Data should be presented in Tables or Figures when feasible. The table should be clear and stand-alone, giving complete information without text. The title of Table and Figure should briefly and clearly describe the facts described. Symbols written in Table and Figure should be given complete information and allow the reader to interpret the results. Each Figure and Table must be referred to in the narration. In the rest of the section, the author must discuss the research findings.
7. Conclusion. This section summarizes the principal findings and is written briefly. Conclusion related to the introduction and aims or hypothesis but did not repeat the discussion. Conclusion written critically, logically, and honestly based on the existing fact, and full of cautions if there was a generalization. A recommendation showed the significance of the results/findings or practical application. This section, written in paragraph form, does not use numbering or bullets.

8. Acknowledgments (if necessary). This section provided the authors with gratitude to the research funder, facility, or suggestion and for the statement if the article is part of the thesis/dissertation.
9. Author contributions: for the article with several authors, please write each author's contribution in a brief paragraph. The authorship must be limited to those who have contributed, besides reading and agreeing on the final manuscript.
10. Conflict of interest: the author should declare the conflict of interest or state "the authors declare no conflict of interest." The author must identify and state the circumstances that may influence the interpretation of the research results.
11. References. The reference contains the list of journals, books, or other publications referred to in this manuscript. Each reference cited in the text must be listed in references, and vice versa. References of the manuscript must be traceable, no less than 40 pieces (Min. 30 titles from reputable international journal), should be a primary source (80%), and not exceed 10 years (80%).

Manuscript Format:

1. The manuscript is written in quarto paper size, one column, and 1.5 spacing format. The new paragraph begins with six characters from the left side and uses Time New Roman font 12.
2. The manuscript is written in English.
3. The number of pages between 15-20, the margin on the left and upper sides is 3 cm, the right and bottom sides are 2.5 cm.
4. The title is written uppercase (except preposition) using font size 14 with center alignment. The subtitle is written uppercase and uses font size 12 if there is a sub-subtitle, written capital each word except conjunction. Write capital for each word and italic model if there is a sub of sub-subtitle. Subtitle, sub-subtitle, and sub of the sub-subtitle are written on the left side.
5. The citation is written by the American Psychological Association 6th Edition. Below are samples of citation: (Wong, Sharifuddin, Teng, Li, & Song, 2020); (Triyono, Kamardiani, & Prasetyo, 2021); (Debertin, 2004); (Statistics Indonesia, 2020).
6. The figure or table is made as close as possible to the explanation and put the number sequentially based on the site in the explanation. The source of data is better to be included.

Note: figure should be clear and fixed (good resolution)

A sample of the figure can be seen in Figure 1.

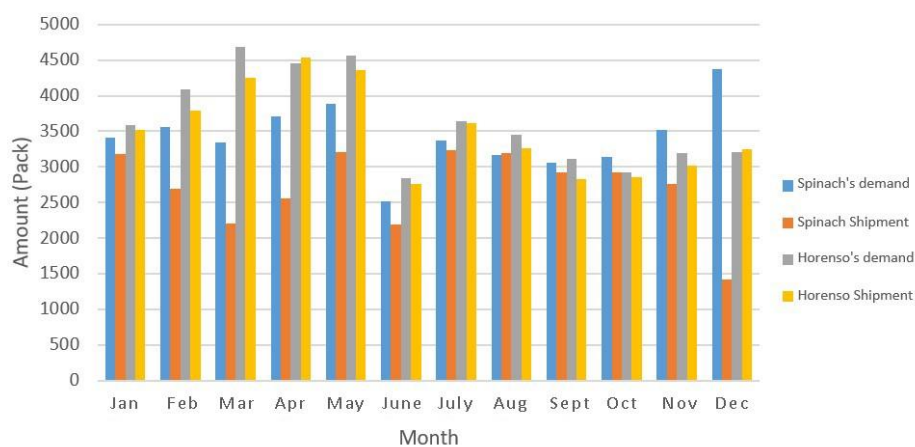


Figure 1. Amount of Order and Shipping of Leaf Vegetables of PT. SFO in 2017

7. Tables consist of titles and content. The line of the table is just on the top and the bottom to separate between the title and the content of the table.

A sample of the table can be seen in Table 1.

Table 1. Food Waste Generated in Malaysia, 2011

| Sources | Food waste | |
|------------------------------|---------------|------------------|
| | Ton/day | Ton/year |
| Household | 8,745 | 3,192,404 |
| Wet and night market | 5,592 | 2,040,929 |
| Food court/restaurant | 5,319 | 1,941,608 |
| Hotels | 1,568 | 572,284 |
| Food and beverage industries | 854 | 311,564 |
| Shopping malls | 298 | 108,678 |
| Hypermarket | 291 | 106,288 |
| Institutions | 55 | 26,962 |
| Total | 22,723 | 8,308,973 |

Source: Ministry of Housing and Local Government (MHLG), 2011

8. References are arranged alphabetically, beginning with the first author, and followed by the co-author. If there are two or more references with the same author and year of publication, put sign a, b, c..... etc. after the year of publication. In the reference that site from a journal, scientific magazine, and proceeding should be including the name of author, year, title, place of the seminar, publisher, page, and editor.

The reference of AGRARIS is written following American Psychological Association (APA) 6th Edition. When referring it is suggested to use the Mendeley application. (The tutorial of Mendeley can be accessed on <http://bit.ly/2vYEQGZ>). Below is the sample of APA 6th Edition:

Article of Journal

Wong, K. K. S., Sharifuddin, J. B., Teng, P. K., Li, W. W., & Song, L. K. (2020). Impact of Urban Consumers Food Consumption Behavior towards Food Waste. *AGRARIS: Journal of Agribusiness and Rural Development Research*, 6(2), 198–207. <https://doi.org/https://doi.org/10.18196/agr.62100>

Article of Proceeding

Triyono, Kamardiani, D. R., & Prasetyo, M. A. (2021). Alocative Efficiency of Honey Pineapple Farm in Pemalang Regency, Central Java, Indonesia. In *International Conference on Agribusiness and Rural Development (IConARD 2020)* (Vol. 232, p. 01016). E3S Web of Conferences. <https://doi.org/10.1051/e3sconf/202123201016>

Book

Debertin, D. L. (2004). *Agricultural Production Economics* (Second Ed.). New Jersey: Pearson Education.

Report on Institution or Corporation

Statistics Indonesia. (2020). *The Statistics of Farm Wages in Rural Area*. Jakarta: BPS-Statistics Indonesia.

ADDITIONAL INFORMATION

Template of the manuscripts can be downloaded at the website of AGRARIS: (<http://journal.umy.ac.id/index.php/ag/index>)