Local Rice Farmers Attitude and Behavior towards Agricultural Programs and Policies

DOI: 10.17582/JOURNAL.PJAR/2022/35.4.663.677

Abstract
The government has been launching agricultural programs by producing rice of certain superior cultivars to achieve rice self-sufficiency and sustainability and bundling them with beneficial policies. However, quite a large number of rice farmers continue to grow local rice variants. This study aims to identify, analyze, and describe farmers’ attitude and behavior. A survey was employed for quantitative data gathering and an interview was for the qualitative ones. A total of 52 respondents were of local rice farmers in Sidodadi and Banturejo villages of Ngantang district, Malang Regency, East Java, Indonesia. The result of correlation test showed good cognitive, affective, and conative aspects of the farmers despite low achievement rates in all government programs. Social stratification significantly affected the farmers’ response on the programs. The farmers’ cognitive, affective, and educational aspects are also significantly influential in their response. Further motives are of internal factors (social) and external ones (official, organizational, private, cultural, and natural). © 2022 by the authors. Licensee ResearchersLinks Ltd, England, UK. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https://creativecommons.org/licenses/by/4.0/).

Author Keywords
Agricultural intensification; Green revolution; Mass direction; Mass intensification; Self-sufficiency

References
(00016)

Adam, W., Malak-Rawlikowska, A., Zavalloni, M., Viaggi, D., Kobus, P., Sulewski, P.
(105190)

December Page Attitude and behavior of Indonesian local rice farmer

Malala, A.R., Nelwan, L.O., Sasmito, A.
• Adinurani, P.G., Rahayu, S., Purbajanti, E.D., Siskawardani, D.D., Stankevica, K., Setyobudi, R.H.
  (Special)

• Adinurani, P.G.
  (2022) *Non-parametric statistics (agricultural applications, manuals and SPSS)*, Dee Publish, Yogyakarta, Indonesia

• Agboola, A.F., Adekunle, I.A., Ogunjimi, S.I.

• Ajzen, I.

• Ajzen, I., Fishbein, M., Lohmann, S., Albarracín, D.
  D. Albarracín and B.T. Johnson (Eds), Lawrence Erlbaum Associates, Mahwah, USA

• Amrullah, L.

• Anandita, D.A., Patria, K.Z.

• Anitasari, R.F.

• Anwarudin, O.

• Ariska, F.M., Qurniawan, B.

• Arsani, A.M.

• Aspandi, A.

• Astarini, I.A., Pharmawati, M., Defiani, M.R., Siddique, K.H.M.
  Development of local rice on the Tabanan Regency of Bali
* Bandumula, N.  
  **Rice production in Asia: Key to global food security**  

* Barnes, A. P., Soto, I., Eory, V., Beck, B., Balafoutis, A., Sánchez, B., Vangeyte, J., Gómez-Barbero, M.  
  **Exploring the adoption of precision agricultural technologies: A cross regional study of EU farmers**  

* Budiono, R., Adinurani, P.G., Soni, P.  
  **Effect of new NPK fertilizer on lowland rice (Oryza sativa L.) growth**  
  (012034)

* Budiono, R., Fuad, N.A., Endang, D.P., Tsitsino, T., Adinurani, P.G.  
  **Effect and effectiveness of granular organic fertilizer on growth and yield of lowland rice**  

* Burlakovs, J., Vincevica-Gaile, Z., Bisters, V., Hogland, W., Kriipsalu, M., Zekker, I., Setyobudi, R.H., Anne, O.  
  **Application of anaerobic digestion for biogas and methane production from fresh beachcast biomass**  
  The Hague, Netherlands

* Burton, R.J.F.  
  **The influence of farmer demographic characteristics on environmental behaviour: A review**  
  December Page 673 135: 19-26

* Chandini, C., Kumar, R., Kumar, R., Prakash, O.  
  **The impact of chemical fertilizers on our environment and ecosystem**  
  Edition: 2nd Chapter: 5

* Christakis, N.A., Fowler, J.H.  
  **Social contagion theory: Examining dynamic social networks and human behavior**  

* Connor, M., de Guia, A.H., Pustika, A.B., Sudarmaji, S., Kobarsih, M., Hellin, J.  
  **Rice farming in Central Java, Indonesia adoption of sustainable farming practices, impacts and implications**  

* Daris, E., Aminudin, I., Feriansyah, A.  
  **Determinants of paddy fields conversion in Java Island, Indonesia**  

* Davidson, J.S.  
  **Then and now: Campaigns to achieve rice self-sufficiency in Indonesia**  
Dazzi, C., Papa, G.L.
A new definition of soil to promote soil awareness, sustainability, security and governance

Ekawati, I., Purwanto, Z.
Potential of agricultural waste ash as an alternative source of potassium, calcium and magnesium nutrients to support sustainable crop production

Ekawati, I., Purwanto, Z.
Transfer of local resource-based vegetable pesticide technology to rice farmers

Ekawati, I., Isdiantoni, I., Purwanto, Z.
Application of immature rice straw compost, azolla, and urea for increasing rice fields production based on local wisdom

Ekawati, I.
Smart farming: PGPR technology for sustainable dry land agriculture
National Seminar on Optimizing Local Resources in the Industrial Revolution Era 4.0

Land suitability assessment and soil organic carbon stocks as two keys for achieving sustainability of oil palm (Elaeis guineensis Jacq.)
(Special

Guangyin, H., Wang, J., Fahad, S., Li, J.
Influencing factors of farmers' land transfer, subjective well-being, and participation in agri-environment schemes in environmentally fragile areas of China
PMID: 35971053

Halim, A., Razak, R., Nain, U.
The relationship between the knowledge level of farmers and the effectiveness of the ricefarming business insurance program (AUTP) in Pinrang Regency, South Sulawesi, Indonesia

Harjanti, L.T., Hara, Y.
The determinants of paddy fields conversion in Java and Sumatra

Hidayat, R.A., Iskandar, J., Gunawan, B., Partasasmita, R.
Impact of green revolution on rice cultivation practices and production system: A case study in Sindang hamlet, Rancakalong village, Sumedang district, West Java, Indonesia

Hidayat, R.A., Partasasmita, R., Iskandar, J., Gunawan, B.
Changes in paddy field management in Sindang Hamlet, Rancakalong village, Sumedang district, West Java, Indonesia

Irsa, R., Nikmatullah, D., Rangga, K.K.
Perceptions of farmers and the effectiveness of farmer groups in the UPSUS
PAJALE program in Banjar Baru District, Tulang Bawang Regency  

- Jorgi, R.S., Gayatri, S., Dalmiyatun, T.  
Dec. 2022 | Vol. 35 | Iss. 4 | Page 674  
Attitude and behavior of Indonesian local rice farmer  
The relationship between the level of farmer knowledge and the effectiveness of the farmer card program in Semarang Regency  

- Kariyasa, K., Dewi, Y.A.  
Analysis of factors affecting adoption of integrated crop management farmer field school (ICM-FFS) in swampy areas  

SUB1A gene screening for submergence stress in Indonesian local rice varieties  

- Khodijah, K., Mukmin, H., Yanti, F.  
Improving the welfare of farming communities through the upsus pajale program in South Lampung  

- Klockner, C.A.  
A comprehensive model of the psychology of environmental behaviour. A meta-analysis  

- Kwasnicka, D., Dombrowski, S.U., White, M., Sniehotta, F.  
Theoretical explanations for maintenance of behaviour change: A systematic review of behaviour theories  

- Lal, R.  
Soil health and carbon management  

- Lastra-Bravo, X.B., Hubbard, C., Garrod, G., Tolón-Becerra, A.  
What drives farmers' participation in EU agri-environmental schemes? Results from a qualitative metaanalysis  

OsGERLP: A novel aluminum tolerance rice gene isolated from a local cultivar in Indonesia  

- Mittal, S., Mehar, M.  
Socio-economic factors affecting adoption of modern information and communication technology by farmers in India: Analysis using multivariate probit model  

- Muhammad, M., Isnatin, U., Soni, P., Adinurani, P.G.  
Effectiveness of mycorrhiza, plant growth promoting rhizobacteria and inorganic fertilizer on chlorophyll content in Glycine max (L.) cv. Detam-4 Prida  
Local wisdom of west timorese farmers in land management

Noviar, H.
Rice imports and policy implications of rice production and consumption in Indonesia

Nugroho, W.
The social construction of the green revolution in the New Order era

Octania, G.
The government's role in the Indonesian rice supply chain
(Issue 32)

Paiman, P., Ardiyanta, A., Ansar, M., Effendy, I., Sumbodo, T.
Rice cultivation of superior variety in swamps to increase food security in Indonesia

Permana, S., Iskandar, J., Parikesit, P.
Local knowledge on rice variations (Landraces) of the Naga Community, West Java, Indonesia

Pratama, A.P.
Level of compliance with 3M implementation for social interaction of visitors to the coffee shop in Sumberan hamlet, Ambulu village

Prihandiani, A., Bella, D.R., Chairani, N.R., Winarto, Y., Fox, J.
The tsunami of pesticide use for rice production on Java and Its consequences

Prespa, Y., Gyuricza, C., Fogarassy, C.
Farmers' attitudes towards the use of biomass as renewable energy a case study from Southeastern Europe

Purbajanti, E.D., Kusmiyati, F., Slamet, W., Adinurani, P.G.
Chlorophyll, crop growth rate and forage yield of Brachiaria (Brachiaria brizantha Stapf.) as the result of goat manure in various nitrogen dosage
(130013)

Purbajanti, E.D., Slamet, W., Fuskhah, E.
Effects of organic and inorganic fertilizers on growth, activity of nitrate reductase and chlorophyll contents of peanuts (Arachis hypogaea L.)
(012048)

Ratmini, N.P.S., Herwenita, Irsan, F.
Climate change mitigation through superior varieties use to increase rice production in tidal swamp land
(012019)
- Razak, S., Utami, S.  
  Strengthening the traditional markets: Evidence from Bosowasi region, South Sulawesi  

- Rezky, M.S., Alam, A.S.  
  Analysis of the implementation of the special effort program for rice, corn, soybeans (UPSUS PAJALE) in realizing food self-sufficiency in Sidenreng Rappang Regency  

- Riah, W., Laval, K., Laroche-Ajzenberg, E., Mougin, C., Latour, X., Trinsoutrot-Gattin, I.  
  Effects of pesticides on soil enzymes: A review  

- Riastyadiningrum, H., Ekawati, I.  
  Management of healthy rice cultivation plants to increase production and income of rice farming  

- Roeswitawati, D., Zahid, H., Asad, J., Ivar, Z., Maizirwan, M., Setyobudi, R.H., Muhidin, M., Hudin, H.  
  The evaluation of secondary metabolites in Saccharum officinarum L. and Mimosa invisa Mart. as natural herbicides  

- Roeswitawati, D., Kristova, I., Muhidin, M., Endarto, O., Atoum, M.F.M., Iqrar, I., Shah, L.A.  
  Assessment of three natural pesticide concentration on the imago phase red mites persistency  
  (Special)

- Sawitri, D.R., Hadiyanto, H., Hadi, S.P.  
  Pro-environmental behavior from a social cognitive theory perspective  

- Setiyanto, A., Pabuayon, I.M., Quicoy, C.B., Camacho, J.V., Depositario, D.P.T.  
  Competitiveness effect of the UPSUS Program on rice production in West Java Province, Indonesia  
  (012010)

- Setiyanto, A.  
  The performance of the UPSUS program implementation on rice production and farmers' income  

- Setiyanto, A., Pabuayon, I.M.  
  Impacts of UPSUS program on the cost efficiency and competitiveness of rice production in Indonesia  

  Bio-refinery study in the crude Jatropha oil process: Co-digestion sludge of crude Jatropha oil and capsule husk Jatropha curcas Linn. as biogas feedstock  

  Healthy-smart concept as standard design of kitchen waste biogas digester for
urban households

- Sidi, P.
The crisis of characters in the perspective of structural functional theory

- Sukmawati, S., Adnyana, A., Suprapta, D.N., Proborini, M., Soni, P., Adinurani, P.G.
Multiplication arbuscular mycorrhizal fungi in corn (Zea mays L.) with pots culture at greenhouse
(00044)

Development of the biogas-energized livestock feed making machine for breeders
(00010)

Development of moving equipment for fishermen’s catches using the portable conveyor system
(00014)

Soil health and sustainable agriculture

- Tewodros, T.
Extension programme participation and smallholders livelihood: Evidence from Awassa Zuria District, SNNPR, Ethiopia

- Thoha, M.
(2017) Contemporary public administration science,

- Usman, A.H.
Community and government legal awareness as a factor in the upholding of a rule of law in Indonesia

- Utami, D.W., Lestari, P., Koerniati, S.
A relative expression of Xa7 gene controlling bacterial leaf blight resistance in Indonesian local rice population (Oryza sativa L.)

- Utami, D.W., Lestari, P., Koerniati, S.
A relative expression of Xa7 gene controlling bacterial leaf blight resistance in Indonesian local rice population (Oryza sativa L.)

- Vargas-Sánchez, A., Plaza-Mejía, M.Á., Porras-Bueno, N.
Attitude
Afari, J. and H. Xiao (Eds), Springer International Publishing
Vargas, E.A.
B. F. Skinner's theory of behavior

Victory, G., Lizzie, O., Olaitan, A.
Climate-smart agricultural practices at Oyo State-Nigeria

Vincevica-Gaile, Z., Stankevica, K., Klavins, M., Setyobudi, R.H., Damat, D., Adinurani, P.G., Zalizar, L., Sohail, A.
On the way to sustainable peat-free soil amendments
(Special): https://doi.org

Vincevica-Gaile, Z., Teppand, T., Kriipsalu, M., Krievans, K., Jani, Y., Klavins, M., Setyobudi, R.H., Burlakovs, J.
Towards sustainable soil stabilization in peatlands: Secondary raw materials as an alternative
(126726)

Wardana, F., Yamamoto, N., Kano, H.
Analysis of technical efficiency of small-scale rice farmers in Indonesia

Warya, A., Anwarudin, O.
Factors affecting farmer participation in paddy-special efforts program at Karawang, Indonesia. Int. J. Attitude and behavior of Indonesian local rice farmer Soc

Widjajanto, D.W., Purbajanti, E.D., Sumarsono, Utama, C.S.
The role of local microorganisms generated from rotten fruits and vegetables in producing liquid organic fertilizer

Williams, N.B., Quilliam, R.S., Campbell, B., Raha, D., Baruah, D.C., Clarkee, M.L., Sarma, R., Dickie, J.
Challenging perceptions of socio-cultural rejection of a taboo technology: Narratives of imagined transitions to domestic toilet-linked biogas in India

Wilson, G.A., Hart, K.
Financial imperative or conservation concern? EU farmers motivations for participation in voluntary agri-environmental schemes

Yasar, M.A., Effendi, I., Silviyanti, S., Mutolib, A.
The response of farmer group members to the Upsus Pajale program in Metro Barat District, Metro City

Zulfitriyana, Z., Syarfi, I.W., Hasnah, H.
The application of UPSUS PAJALE program technology on rice

Correspondence Address
Prasetyo H.; University of Brawijayaindonesia; email: hprasetyo@ub.ac.id

Publisher: ResearchersLinks Ltd

ISSN: 02510480
Language of Original Document: English
Abbreviated Source Title: Pak. J. Agric. Res.