PROCEEDINGS OF

THE 4TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ANIMAL AGRICULTURE FOR DEVELOPING COUNTRIES (SAADC2013)

27 – 31 JULY 2013

LANZHOU UNIVERSITY
LANZHOU, CHINA
PREFACE

SAADC2013 is the fourth in the biennial conference on *Sustainable Animal Agriculture for Developing Countries*; the first being held in Kunming, China in 2007 and the second and third in Kuala Lumpur, Malaysia and Nakhon Ratchasima, Thailand in 2009 and 2011 respectively. This series of conferences is designed to provide a platform for the exchange of experience and knowledge among academicians, researchers, graduate students and producers for development of sustainable animal industry in developing countries. A total of 181 Extended Abstracts have been accepted for presentation during the 4-day conference and are published in this proceedings.

The Extended Abstracts, submitted by participants from 26 different countries, consist of 2 Keynote addresses, 10 Plenary lectures, 13 Lead papers and 162 scientific presentations. They cover policies and management strategies, nutrition and feeding, physiology, breeding and genetics, production systems, and biotechnology pertaining to the development of a sustainable livestock industry.

The SAADC2013 had assembled together a proficient team for the Editorial Board. However, their duties were constrained by the late submissions of many abstracts, hence these will appear ‘as is’ with minimal editing. The accuracy of the contents, including methodologies and results of the Abstracts are the sole responsibility of the authors.

I would like to extend my sincere gratitude to the members of the SAADC2013 Editorial Board for their commitment and diligence in coming up with this Proceedings.

With best regards

*Chairman SAADC2013 Editorial Board*

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Household Budget and Calorie Consumption of Livestock Products: Evidence from Indonesia

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Abstract

This study intends to capture the household budget of livestock products consumption and its calorie consume in six provinces of Java Island in Indonesia. An empirical analysis is made by employing simple Engel model and the descriptive analysis. The result suggested that both household in urban and rural area spent their income for meat higher than that of egg and milk. In other words, as income increase consumption of meat responds much faster than consumption on egg and milk. The calorie consume from meat, egg and milk consumption are still low, under government’s recommendation.

Key words: Household Budget, Calorie Consume, Livestock Products

Introduction

Livestock products such as meat and dairy products have higher responsiveness than do cereals (Hutasuhut et al, 2002; Ariningsih, 2004, Warr, 2005; Bond et al, 2007). Low consumption of animal protein in Indonesia is due to high price of animal protein compare with that of vegetable protein. In other words, purchasing power is the main factors of animal protein consumption (Martianto, 1995; Hermanto et al., 1996; dan Erwidodo et al.,1998). There is positive relationship between level of income and the consumption of livestock product, with the consumption of meat, milk and eggs increasing at the expense of staple foods (WHO).

Materials and Methods

Materials

Household Expenditure Survey (SUSENAS) data were used in this study. The 2008 SUSENAS data involve sample household in whole Indonesia, but in this study we used data from six provinces in Java. Households were dividing into two categories; low, middle and high income in rural and urban area.

Method

Engel model analysis was used to examine expenditure pattern of households i.e. 

\[ \log w_i = \alpha_i + \beta_i \log(Y) + \epsilon_i \]

where \( w_i \) is expenditure on \( i \) th commodity, \( Y \) is household income, \( \alpha_i \) and \( \beta_i \) are coefficients regression, and \( \epsilon \) is an error term. This model specification allows luxuries \((\beta>0)\), necessities \((\beta<0)\), and inferior goods. The model has the advantage of being valid for all income groups; and the implied elasticity behavior is a slow
decline with differences between elasticities remaining constant, which is quite plausible (Leser, 1963, and Yoshihara, 1969). Household calorie consume were calculated from six main livestock products

**Results and Discussion**

Expenditure share on livestock product was lower than that of other food category. Most of rural household spent their income on livestock product is lower than that of either cereal or other food category, except DI Yogyakarta and DKI Jakarta province. Each of the livestock products is significantly correlated with various income groups in urban area. As observed, meat, egg and milk in urban area is correlated positively and significantly with income for low, middle and high income group. As shown by positive income parameter in the Engel function, the proportion of expenditure on meat, egg and milk will increase with an increase in household income. This suggests that as total income increase, expenditures for livestock product in urban area may increase more rapidly than expenditures for livestock product on rural household. The calorie consumption pattern from livestock product DKI Jakarta province is higher in all categories of livestock products while East Java province has the lowest ones.

**Conclusion**

This study revealed household in urban and rural area, household will spent their income for meat higher than that of egg and milk. In other words, as income increase consumption of meat responds much faster than consumption on egg and milk. The calorie from from livestock products consumption was still low from the recommendation

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This is to certify that

Mutilahedh Anggirani Umnili Muzayyanah (Indonesia, Presenter)

has participated in

CERTIFICATE