Proceedings

First Asia Dairy Goat Conference

9 - 12 April 2012
Corus Hotel, Kuala Lumpur, Malaysia

Editors:

Rasedee Abdullah
M. Ariff Omar
M. Ali Rajion
A. Razak Alimon
Liang Juan Boo
Haw Ah Kam
Copyright © 2012
Published in Malaysia by:
Institute of Tropical Agriculture,
Universiti Putra Malaysia,
43400 UPM Serdang,
Selangor Darul Ehsan,
Malaysia.

All rights reserved. No part of this publication may be reproduced, stored in a
retrieval system or transmitted in any form, or by any means, electronic,
mechanical, photocopying, recording or otherwise, without the prior permission
of the copyright owner.

Printed by:
Syarikat Perniagaan Weng Sing
Taman Sri Serdang, Selangor D.E.

Due to time constraint, it was not possible for the Editors to edit thoroughly all the Abstracts,
particularly those which were submitted late. In view of this, the Editors are not responsible
for any errors or omissions in the published Abstracts.
CONTENTS

KEYNOTE ADDRESS

Keynote 1 Dairy Goats in Asia: Multifunctional Relevance and Contribution to Food and Nutrition Security
Devendra, C.

PLENARY PAPERS

Plenary 1 Linking Smallholders to Markets – Opportunities and Challenges
Otte, M.J., V. Ahuja & D. Roland-Holst

Plenary 2 Challenges Facing Dairy Goat Farmers in Malaysia
Jamaluddin, A., K. Idris & R. Roslaini

Plenary 3 Dairy Goat Farming in Australia: Current Challenges and Future Developments
Celi, P. & P.J. White

Plenary 4 Improving Dairy Goat Productivity with Concomitant Mitigation of Methane

Plenary 5 The Possibility of Controlling Flow of Metabolic H into Various Pathways in Rumen Fermentation to Improve Dairy Goat Productivity
Mitsumori, M., O. Enishi & T. Shinkai

Plenary 6 IDF Perspectives on the Global Dairy Situation and Development Perspectives for Non-Cow Milk
Seifert, J.

Plenary 7 Goat Milk and Human Nutrition
Park, Y.W.

Plenary 8 Microbiota of Goat’s Milk and Goat’s Milk Cheeses
Tsakalidou, E.

Plenary 9 The Welfare of Dairy Goats
Phillips, C.J.C.
Paper 37  Phyllogenetic Analysis of Serotype Asia 1 Foot-and-Mouth Disease Virus: Asia Diversity and the Iran Perspective  
Tahmoorespur, M.  

175

Paper 38  Johne’s Disease in Goats: A Histopathological and Serological Study  
Younus, M., A. Sikandar, A.H. Cheema, A. Aslam & M.A. Zaman  

177

Tiwari, S.P. & A. Roy  

179

Paper 40  Seroepidemiological Investigation and Risk Factors Analysis of Brucellosis in Small Ruminants and Their Owners in a District Of Pakistan  
Ahmad, M.D., M. Idrees, M.A. Khan, A. Maqbool & M.H. Mushtaq  

181

Economics and Socio-economics

Lead Paper 4  Improvement in Rural Livelihood through Dairy Goat Farming in India  
Thiruvenkadan, A.K.  

183

Paper 41  Housing Advancements for Smallholder Dairy Goat Farming in the Tropics  
Yogendran, N.  

188

Paper 42  Rural Farmer Preferences Regarding Purpose of Rearing and Choice of Body Coat Colour in Indian Rural Goats  
Gokhale, S.B., D.R. Sonawane & R.S. Sharma  

191

Paper 43  Developing a Model of a Goat-Sharing System Based on Farmer Groups to Improve Etawah Crossbred Goats in the Village  
Haryadi, T., Y. Suranindyah, S. Paramithasari, S. Triatmojo & A. Astuti  

194

Paper 44  Normative Pen Mating Behaviour in Local Goats of Rohilkhandi Region  

196

Paper 45  Emerging Stall-Fed Goat Farming for Milk and Meat in the Periurban Districts of Karnataka, India  
Manu, C. & B.L. Chidananda  

198
Paper 46  The Role of Goat in Poverty Reduction among Smallholder Farmers in Egypt
Metawi, H.M. & E. Z.M. Oudah  
200

Paper 47  Integration of Etawa Crossbred Dairy Goat - Cocoa in East Java Province, Indonesia
Riyanto, J. & C. Anam  
202

Paper 48  Dairy Goat Feeding Characteristics in Malang District East Java, Indonesia
Hidayati, A., Hanitia, Soeburinoto & Kusmartono  
205

Paper 49  Lactation Performance of Local Goats of Rohilkhand Region, India under Semi-intensive System
208

Paper 50  Dairy Goat – a Potential Candidate of the Dairy Science Park Peshawar, Pakistan
Qureshi, M.S.; S. Khan, N.A. Khan & K.B. Marwat  
210

Paper 51  Trends in Goat Production in Independent Republic of Iran
Amirinia, C. & M.A. Kamali  
213

Paper 52  Composition of Milk from Goats Reared by Control-in-Pen and Free-to-Roam Methods in Western Thailand
Nakthong, C. & S. Nakthong  
214

Paper 53  Impact of Prompt Delivery of Veterinary Services upon Morbidity and Mortality Rate in the Flocks of Indigenous Goat Farms in Central Punjab, Pakistan
Khan, M.A., A. Maqbool, M. Younas, M. Naeem, F.M. Hassan, A. Rehman & F. Nazir  
218

Paper 54  Heat Tolerance Coefficient of Pregnant and Nonpregnant Dairy Goat in Hot Environment
Busono, W., E. Setyowati & I.M.S. Karana  
222

POSTER PAPERS

Paper 55  Benefits of Rain Tree Pods to Dairy Goat Farms
Jetana, T., S. Usawang & M. Techakampa  
223

Paper 56  Association between Growth Hormone Gene and Post-Weaning Body Weight Gains in Savanna Goats
225
Paper 43

Developing a Model of a Goat-Sharing System Based on Farmer Groups to Improve Etawah Crossbred Goats in the Village

Haryadi, T., Y. Suranindyah*, S. Paramitasari, S. Triatmojo & A. Astuti

Faculty of Animal Science, Universitas Gadjah Mada, Jl. Fauna No.3, Kampus UGM, Bulaksumur, Yogyakarta, Indonesia 55281
Correspondence author: yuni.suranindyah@ugm.ac.id

Introduction

The majority of Etawah crossbred goats in the Yogyakarta Province are raised by smallholders to produce milk, meat and manure. Many of the goat farmers are organised in a system that is referred to as a communal farming system. Goat farmers generally have small investments and it is difficult for them to obtain bank loans. To solve this problem there was a need assist them by giving soft loans, micro-credit or sharing system (Masika and Mafiu, 2004). Kustantinah et al., (2006) showed that the goat-sharing scheme that was implemented by the women's group had improved women access to information, goat productivity and leading to better household prosperity.

The objective of the study was to assess the contribution of the sharing system towards increasing goat numbers in the group, the function of farmer group organisation and farmer income by producing milk.

Materials and Methods

The sharing system was conducted in the “Etawa Lestari” farmer group, at the village of Candi Binangun, Pakem, Sleman. The activity started with a survey and group discussion to determine the suitability of the location. The next activity was implementation of the sharing system of goat. Monitoring of goats was conducted while extension services were provided to the farmers every month.

Results

The results showed that farmers have planted various types of plants around the location, including feed for goats, such as Glirisidia maculata, Calliandra callothyrsus, jack fruit and grass.

The mechanism of the sharing system could be described in the following steps: (1) at the beginning of the system each farmer was given one young pregnant goat. One buck was provided for 10 females, (2) 10 farmers received sharing goats at the beginning of the system, (3) farmers provide slatted pens. To build the pen, farmers obtained loans, which must to be paid back by installment every month during the period of sharing system, (4) farmer had to be provide one young female goat from the first pregnancy to another farmer and improve the organisation of farmer group, (5) farmers have to manage the goat and keep it productive, (6) the maximum period of the sharing was 2 years.
The sharing system started in 2009 with 10 young female goats and one buck. After 2 years the goat number increased to 34 and the number of group members increased from 10 to 18 farmers. Meeting of group members was routinely conducted every month. Extension services to improve knowledge and communication was provide during the farmer meetings. In 2011 three farmers started to milk their goats. The result concluded that the sharing system could increase goat number and improve the function of the farmer group organisation.

References


Certificate of Participation

This is to certify that

F. TRISAKTI HARYADI

has participated in the

1ST ASIA DAIRY GOAT CONFERENCE

9 – 12 April 2012
Corus Hotel Kuala Lumpur, Malaysia

Organised by:

Institute of Tropical Agriculture
Universiti Putra Malaysia

Food and Agriculture Organization of the United Nations

Department of Veterinary Services Malaysia

&

International Dairy Federation

DR. LIANG JUAN BOO
Chairman
1st Asia Dairy Goat Conference

PROF. DR. ZULKIFLI IDRUS
Director
Institute of Tropical Agriculture