



Sustainable Livestock Production in the Perspective of
Food Security, Policy, Genetic Resources, and Climate Change

Proceedings Full Papers

10-14 November 2014, Yogyakarta, INDONESIA



The 16th AAAP Congress



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Gadjah Mada University



Indonesian Society of Animal Sciences



Ministry of Agriculture



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SUSTAINABLE LIVESTOCK PRODUCTION IN THE PRESPECTIVE OF FOOD SECURITY, POLICY, GENETIC RESOURCES, AND CLIMATE CHANGE

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AAAP



Asian-Australasian Association of Animal Production Societies

Scope of AAAP: AAAP is established to devote for the efficient animal production in the Asian-Australasian region through national, regional, international cooperation and academic conferences.

Brief History of AAAP: AAAP was founded in 1980 with 8 charter members representing 8 countries—those are Australia, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines and Thailand. Then, the society representing Taiwan joined AAAP in 1982 followed by Bangladesh in 1987, Papua New Guinea in 1990, India and Vietnam in 1992, Mongolia, Nepal and Pakistan in 1994, Iran in 2002, Sri Lanka and China in 2006, thereafter currently 19 members.

Major activities of AAAP: Biennial AAAP Animal Science Congress, Publications of the Asian-Australasian Journal of Animal Sciences and proceedings of the AAAP congress and symposia and Acknowledgement awards for the contribution of AAAP scientists.

Organization of AAAP:

- **President:** Recommended by the national society hosting the next biennial AAAP Animal Science Congress and approved by Council meeting and serve 2 years.
- **Two Vice Presidents:** One represents the present host society and the other represents next host society of the very next AAAP Animal Science Congress.
- **Secretary General:** All managerial works for AAAP with 6 years term by approval by the council
- **Council Members:** AAAP president, vice presidents, secretary general and each presidents or representative of each member society are members of the council. The council decides congress venue and many important agenda of AAAP

Office of AAAP: Decided by the council to have the permanent office of AAAP in Korea. Currently # 909 Korea Sci & Tech Center Seoul 135-703, Korea

Official Journal of AAAP: Asian-Australasian Journal of Animal Sciences (Asian-Aust. J. Anim. Sci. ISSN 1011-2367. <http://www.ajas.info>) is published monthly with its main office in Korea

Current 19 Member Societies of AAAP:

ASAP(Australia), BAHA(Bangladesh), CAASVM(China), IAAP(India), ISAS(Indonesia), IRAS(Iran), JSAS(Japan), KSAST(Korea), MSAP(Malaysia), MLSBA(Mongolia), NAS(Nepal), NZSAP(New Zealand), PAHA(Pakistan), PNGSA(Papua New Guinea), PHAS(Philippines), SLAAP(Sri Lanka), CSAS(Taiwan), AHAT(Thailand), AHAV(Vietnam).

Previous Venues of AAAP Animal Science Congress and AAAP Presidents

I	1980	Malaysia	S. Jalaludin	II	1982	Philippines	V. G. Arganosa
III	1985	Korea	In Kyu Han	IV	1987	New Zealand	A. R. Sykes
V	1990	Taiwan	T. P. Yeh	VI	1992	Thailand	C. Chantalakhana
VII	1994	Indonesia	E. Soetirto	VIII	1996	Japan	T. Morichi
IX	2000	Australia	J. Ternouth	X	2002	India	P. N. Bhat
XI	2004	Malaysia	Z. A. Jelani	XII	2006	Korea	I. K. Paik
XIII	2008	Vietnam	N.V. Thien	XIV	2010	Taiwan	L.C. Hsia
XV	2012	Thailand	C.Kittayachaweng	XVI	2014	Indonesia	Yudi.Guntara.Noor



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Remark from Chairman of the 16th AAAP Congress

Dear all of the scientists, delegates, participants, ladies and gentlemen,

As the host of the 16th AAAP Animal Science Congress, we do impress, thankful, and present a high appreciation for your participation in joining the 16th AAAP Conference in Yogyakarta, Indonesia. We can see the very great enthusiasm of all the scientists to solve livestock problems as well as to share valuable information and knowledge for human prosperity all over the world.

A large numbers of representatives are participating in this conference, which indicates that the interest in the field of animal science is continuously increasing among member countries. We have invited some Plenary Speakers and Invited Papers who are qualified as scientists and bureaucrats in animal science field to share their valuable information and knowledge. Other participants can deliver their precious research through oral and poster presentations. This congress is also paralleled to symposium held by livestock organization and institution as well as some academic meetings.

The theme of the 16th AAAP Congress is “Sustainable Livestock Production in the perspective of Food security, Policy, Genetic Resources and Climate Change”. We believe that animal production in Asia and Australasia has become important and strategic sector to provide high quality food, opening up job opportunities, as well as improving farmer’s welfare. Animal science societies, therefore, have to support this growing interest by providing more appropriate and relevant technologies to improve efficiency of resources utilization to produce more animal protein food by member countries. Long term sustainable livestock production will, therefore, be significantly influenced by the national food policy, climate change issues, as well as conserved environments and genetic resources.

On behalf of 16th AAAP Committee and all associates, we wish all of the participants having a great achievement of success and fulfill the expectation as well as enjoying the interaction with all scientists participating the Congress.

High appreciation we may acknowledge to all of sectors, especially for His Majesty of Royal Palace of Yogyakarta, Sri Sultan Hamengku Buwono X, and Rector of Universitas Gadjah Mada, who have concerned to facilitate the Congress site host. Special thank to the Steering Committee, Scientific Committee, Reviewers and Editorial Boards for their great contribution to make the Congress successfully organized.

To you, your excellencies, invited guests and delegates, thank you for choosing to come to this conference and to Indonesia. We hope the arrangements we have put in place meet with your requirements. We wish you fruitful deliberations and an intellectually and socially rewarding stay in Yogyakarta.

We are looking forward to meeting you all in the future congress to continue.

Terimakasih (Thank you)

Budi Gunthoro

Chairman of the 16th AAAP Congress

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With all of our hospitality, we will try our best to make your brief visit to Yogyakarta and our beautiful country Indonesia, become a wonderful experience and memorable moments.

I wish you all a very pleasant and most enjoyable stay in Yogyakarta, Indonesia.

Terima kasih (Thank you).

Sincerely Yours
Mr. Yudi Guntara Noor
President
The 16th AAP Congress

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PREFACE

The proceedings of the 16th Congress of the Asian-Australasian Association of Animal Production Societies (AAAP) held on 10-14 November 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta, Indonesia, consist of two volumes. Those are Volume I of Plenary and Invited Papers and Volume II of Abstracts Contributed Papers. This is the second volume of the proceedings that contains a total of 754 abstracts, consist of 368 papers for oral presentation and 386 papers for poster. Papers were categorized into various disciplines, such as Nutrition and Feed Technology; Genetics and Reproduction; Physiology, Animal Welfare and Health Management; Product Technology and Food Safety; Waste and Environmental issues; Forage Agrostology; as well as Agribusiness, Marketing, Extension and Community Development. The scientific committee has initially received a total of 1,028 abstracts from 42 countries. After reviews have been made, 60 of them were rejected and 74 were cancelled by the authors. The reviewers consist of 4 international and 71 internal reviewers from 6 universities and 1 research institute in Indonesia. In the interest of time limitation for proceedings publication, we apologize for not including 140 submitted abstracts in the proceedings since they were not being followed up with full manuscripts until the extended due date we offered.

The scientific committee would like to thank all the reviewers and appreciate their effort to make significant contribution in reviewing the full manuscripts. Similarly, we would also like to thank supporting staffs at the secretariat office of the Faculty of Animal Science, Universitas Gadjah Mada as well as of the Indonesian Center for Animal Research and Development who have helped in the preparation of the proceedings. Finally, we would like to thank all the authors for their valuable contribution to the congress and make it useful for our societies.

Editorial Team

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B 255 TH	Effect of Dietary Nucleotides on Intestinal Morphology of Broiler Chickens <i>K. Paditporn, J. Mitchaothai, K. Rojanamongkol, P. Jaipeng and R. Lertpatarakomol</i>	1950
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B 412 DZ	Effects of Marl and Kaolin on Growth Performances, Digestive Efficiency and Wet Droppings of Broiler Chickens <i>D. Ouachem, A. Meredef, A. Kalli, N. Kaboul, A. Mehdaoui, and Z. Ahmed Gaid</i>	1958

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Biscuit of *Carica Papaya L.* and *Indigofera Sp* Leaf for Increasing Milk Production and Quality of Dairy Goat

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ABSTRACT

This study aims to analyze the effect of biscuit *Carica papaya L.* and *Indigofera sp* leaf on milk production and quality at dairy goats. This research was conducted on August-October 2013 at Leuwiliang farm in Bogor, Indonesia. Twelve heads of dairy goat were randomly assigned to two dietary treatments (six heads of goat/treatment). This research used T-test with two treatments and six replications (T0 = 0% of biscuits *Carica papaya L* and *Indigofera sp* leaf and T1=15% of biscuit of *Carica papaya L* and *Indigofera sp* leaf). The result indicated the treatments had significant effect ($P<0.05$) on milk production. By feeding of 15% biscuit *Carica papaya L* and *Indigofera sp* leaf had average milk production 530 ml/head/day, while by feeding without biscuit had average milk production 397.5 ml/head/day. Biscuit feeding had not significant effect ($P<0.05$) on lactose, fat, and calcium content of milk. By feeding 15% biscuit of *Carica papaya L.* and *Indigofera sp* leaf yield milk production 25 % higher than conventional feed. It was concluded that biscuit of *Carica papaya* and *Indigofera sp* leaf feeding on 15% level had the best result on milk production.

Key Words: Biscuit, *Carica papaya L.*, Dairy goat, *Indigofera sp.*, Milk

INTRODUCTION

Etawah Goats (PE) is one of the Indonesian goat germ-plasm including dual-purpose goat, with the level of milk production around 0,45 – 2,1 l/d/lactation (Obst dan Napitupulu, 1984; Utama et al.,1995; Adriani et al., 2003). One of the factors affecting low milk production of dairy goat is the quality of forage feed. The use of grass as forage has the low palatability and digestibility, supply is difficult to be obtained, especially during the dry season. In addition, land for forage and agricultural narrowing displaced by human interests for housing, industrial estates, offices and so on, so it needs to be fodder supply strategy that do not compete with humans.

The main constraints of finding ruminant raw materials for animal feed are as follows: (i) the characteristics of the feed basic material that are commonly perishable have caused difficulties in the handling, distribution, and processing of livestock feed, (ii) the raw material of feed from agricultural waste has low palatability such as papaya leaves with bitter taste (Retnani et al.,2014) .Technology has an important role in feeding livestock (Retnani et al.,2014). Biscuit is a dry product that is relatively long-lasting under normal storage conditions and easy to handle (Whiteley, 1971). Biscuit is a dry product that has a relatively high power durable so it can be stored for a long time and easy to carry while traveling because of the volume and weight of the drying process. This study aims to analyze the effect of biscuit *Carica papaya L.* and *Indigofera sp* leaf on milk production and quality at dairy goats.

MATERIALS AND METHODS

The research was conducted at Laboratory of Feed Industry, Faculty of Animal Science, IPB and the productivity test conducted on the dairy goat farm at Leuwiliang, Bogor, Indonesia,

on August-October 2013. Twelve heads of dairy goat were used in this experiment. This research used female dairy goats 3 lactation period with the average milk production around was 435 ± 69.34 ml. The animals were randomly assigned to two dietary treatments (six heads of goat/ treatment). Conventional feed used in farm are field grass and concentrates. The nutrient content of field grass were ash 9.01%, crude protein 6.38%, crude fiber 25.60%, crude fat 1.36%, NFE 57.65% and the nutrient content of concentrate were ash 2.87%, crude protein 12.77%, crude fiber 43.25%, crude fat 3.82%, NFE 37.29%.

Process of Biscuit *Carica papaya L.* and *Indigofera sp.* leaf Production

Process of biscuit production from raw material i.e. *Carica papaya L.* and *Indigofera sp.* leaf and processed by grinding, mixing, pressing and heating with temperature 100°C for 5 minutes to form biscuit *Carica papaya L.* and *Indigofera sp.* leaf and than cooling in room temperature (Retnani *et al.*, 2014).

Experimental design

This research used T-test with two treatments and six replications ($T_0 = 0\%$ of biscuits *Carica papaya L.* and *Indigofera sp.* leaf and $T_1 = 15\%$ of biscuit of *Carica papaya L.* and *Indigofera sp.* leaf). The data was analyzed using Analysis of Variance (ANOVA). The differences among treatments were examined by Duncan test (Steel and Torrie, 1993). The parameters measured were milk production and quality of milk. Fat content was conducted by Gerber (Sudono, 1985), lactose tasted by Milko tester Milk Analyzing Device model Master Pro and calcium content was conducted by Spektrofotometer (Silvia, 2010).

RESULTS AND DISCUSSION

Physical Characteristics and Nutrient of Biscuit *Carica Papaya L.* and *Indigofera sp.* Leaf

Biscuit *Carica papaya L.* and *Indigofera sp.* in greenish brown color, smell fragrant, and have coarse texture with particle size is 4.33 mm. This form is very advantageous because of ease in transport, storage, handling administration to livestock as to increase the level of consumption. Physical characteristics are influenced by water content, water activity, density, water absorption. Water content of biscuit *Carica papaya L.* and *Indigofera sp.* leaf is 8.62%. According to Trisyulianti *et al.* (2003), activity of microorganisms can be reduced in water content is around 12%-14%, so the feed material is not easy to mold and rot. The next physical properties are of water activity 0.78, that water activity is influenced by the high and low water content. While water absorption of biscuit *Carica papaya L.* and *Indigofera sp.* leaf is 68%.

Nutrients content of biscuit *Carica papaya L.* and *Indigofera sp.* leaf i.e. 7.90% of ash, 33.86% of crude protein, 18.85% of crude fiber, 3.48% of crude fat and 28.30% of NFE. The crude protein of biscuit *Carica papaya L.* and *Indigofera sp.* leaf is very high. Biscuit *Carica papaya L.* and *Indigofera sp.* leaf have dry matter digestibility is 84.35%. Papaya leaf contents crude protein approximately 20.89% so that could be a source of protein feed ingredient, papain enzyme contained in papaya leaf is almost the same as the function of protease enzyme in the digestive tract (Sarjuni, 2006).

Milk Production and Quality

The result of variance analysis showed that before and after treatments had significantly effect ($P < 0.05$) on milk production. Milk production without given biscuit *Carica papaya L.* and *Indigofera sp.* leaf was decreased 71.76 ml/head. While the addition of biscuit *Carica papaya L.* and *Indigofera sp.* leaf was increased 186.67 ml/head. This indicates that the addition of biscuit *Carica papaya L.* and *Indigofera sp.* leaf can increase the milk production

around 25%. Milk production in Leuwiliang farms is around 361.67-623,33 ml/head/day (Table 1).

Table 1. Milk production and quality in Leuwiliang farm

Treatments	Milk Production		Average of milk production	Δ
	Before Treatment	After Treatment		
T0	433.33 ± 75.54	361.67 ± 34.30	397.5±54.92 ^c	-71.67 ±85.42 ^x
T1	436.67±69.76	623.33±96.47	530±83,12 ^d	186.67±73.67 ^y
Average	435±72.65 ^a	495.5±65.39 ^b		

Superscript different on the same line indicate highly significant difference (P<0.05). T0 = 0% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf; T1 = 15% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf.

Crude protein of biscuit *Carica papaya* L. and *Indigofera sp.* leaf is as high as 33.86% and can increase milk production. According to Sudono (1999) crude protein is needed for growth, reproduction, milk production. Based on the research (Gustiani dan Mulijanti, 2010) the average PE goat milk production is 1.0 – 1.5 liter/day. The results of analysis of variance showed that the treatments does not significantly affect (P>0.05) on milk quality i.e. fat, protein, and lactose before and after addition biscuit *Carica papaya* L. and *Indigofera sp.* leaf. However the addition of biscuit *Carica papaya* L. and *Indigofera sp.* leaf significantly affect (P<0.05) on calcium and changes in the quality of milk. Goat milk fat content in this research is around 8.21-8.50% (Table 2). Fat content in this research was higher than fat content of the research results of Apdini (2011) is 6. 4.00%-10.17%.

Table 2. Effect of biscuit *Carica papaya* L. and *Indigofera sp.* leaf on fat (%)

Treatment	Before	After	Δ
T0	8.44± 0.85	8.50 ± 1.12	0.06±0.78 ^a
T1	8.21 ± 1.23	8.32± 1.58	0.11±0.45 ^b

Superscript different on the same line indicate highly significant difference (P<0.05). T0 = 0% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf; T1 = 15% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf.

The range of lactose content in this research is around 3.23-3.55% (Table 3). According to Budiarsana dan Utama (2001) the range of lactose content of dairy goat milk is around 5.08%-5.21% and 3.24%-3.90% (Apdini, 2011). Lactose is synthesized from glucose blood circulated from secretory cells on the udder gland.

Table 3. Effect of biscuit *Carica papaya* L. and *Indigofera sp.* leaf on lactosa (%)

Treatment	Before	After	Δ
T0	3.44± 0.22	3.38± 0.23	0.06±0.11 ^a
T1	3.23 ± 0.25	3.55± 0.16	0.32±0.14 ^b

Superscript different on the same line indicate highly significant difference (P<0.05). T0 = 0% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf; T1 = 15% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf.

Table 4 showed that the range of calcium in this reaserch is around 0.11-0.17%. Goat milk given biscuit *Carica papaya* L. and *Indigofera sp.* leaf encounter the calcium enhancement. Various studies have shown that goat milk calcium varies from 0.13% (Damayanti, 2002).

Table 4. Effect of biscuit *Carica papaya* L. and *Indigofera sp.* leaf on calsium (%)

Treatment	Awal	Akhir	Δ Perubahan
T0	0.15± 0.02	0.16± 0.04	0.01±0.03 ^a
T1	0.11± 0.05 ^a	0.17± 0.03 ^b	0.06±0.01 ^b

Superscript different on the same line indicate highly significant difference (P<0.05). T0 = 0% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf; T1 = 15% of biscuit *Carica papaya* L. and *Indigofera sp.* leaf.

CONCLUSION

It was concluded that biscuit of *Carica papaya* L and *Indigofera sp.* leaf feeding on 15% level had the best result on milk production.

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