

Proceedings of the 6th National Animal Science Convention 8-9 Aswin, 2068 (25-26 Sept, 2011)

Commercialization of Livestock Production
for
Food Security and Prosperity



Nepal Animal Science Association
October, 2012

CONTENTS

STRATEGIC PAPERS

Climate change and its possible consequence to the livestock species in the context of Methane gas production <i>Nathu Prashad Chaudhari and Chet Raj Upreti</i>	1
Commercialization of dairy farming in Nepal <i>Heramba B Rajbhandary and Laxman Sherehand</i>	12
Fisheries sub-sector: research and development strategies in Nepal <i>Tek Bahadur Gurung, Rajendra KC, Suresh K Wagle</i>	19

LIVESTOCK FEEDS AND FEEDING

Defoliation calendar of fodder trees in mid hills of Nepal <i>Ram P. Ghimire, Rudra R. Khanal and Devi P. Adhikari</i>	33
Evaluation of winter and summer forage combination with legume in mid hill of Rasuwa district <i>Birendra Khanal</i>	47
Feeding traits, feed availability and migration of yak in Mustang district of Nepal <i>M.K Shah, H. Kumagai and T. Sakai</i>	51
Incorporation of urea treated rice straw in feeding stall-fed goat under agro-forestry System <i>N.P. Osti, P. Mandal, M.R. Thwari, B.K Shrestha and C.R. Upreti</i>	55
Effect of addition of fishmeal in quail layer diet containing high levels of rice bran Formulated based on total amino acids and digestible amino acids <i>Subarna M. Pradhan and Ernesto A. Martin</i>	60
Farmer's indigenous knowledge on adoption of fodder tree species in mid-hill farming Systems of Nepal <i>I. Barsila, Naba R. Devkota, S.R. Barsila</i>	65
Growth performance of broiler rabbit with graded level of crude protein on the Concentrate feed <i>D Neupane and S M Pradhan</i>	77
Growth comparison of crossbred piglets fed with normal vs quality protein maize (qpm) In western hills of Nepal <i>M.R. Tiwari, K. B. KC, S.M. Pradhan and U. Siluwal</i>	81
Study on different aspects of milk for reducing cost of production in Nepal <i>K. K. Shrestha, K.P. Timsina, S.Sanjyal & P. B. Mumankarmi</i>	90
Study on production performance of summer and inter forage crops through farmers' participatory approach at different locations of Nepal <i>Sunita Sanjyal, Kishor Kumar Shrestha and P. B. Mumankarmi</i>	101
Herbage mass productivity and carrying capacity estimation of some of the selected Rangelands of Nepal <i>Naba R. Devkota and Mana R. Kolachhapati</i>	109

Selection of suitable species of perennial forages under rai khanayo (<i>figus semicordata</i>) based silvipastoral system in the mid-hills of western Nepal	
<i>Ram P. Ghimire, Devi P. Adhikari and Rudra R. Khanal</i>	118
Effects and use of forage peanut meal on the diet of growing Swine	
<i>T. R. Bhandari, M. Sharma, N. R. Devkota, M. Sapkota</i>	128

ANIMAL BREEDING AND LIVESTOCK PRODUCTION MANAGEMENT

Poultry breeds and their Interaction with Scavenging Management System	
<i>Mohan P. Sharma, Mohan Kharel, Naba R. Devkota and Maheshwor P. Sapkota</i>	137
Existing breeding systems, constraints and potential for dairy cattle improvement in Chitwan district of Nepal	
<i>B. R. Acharya, S. P. Neopane and B. S. Shrestha</i>	148
Genetic potentialities of khari goat in Nepal: A review	
<i>Nirajan Bhattarai</i>	158
Comparative analysis of the production performance of indigenous and murrha-cross breeds of buffaloes in mid-hills of Nepal	
<i>L. Paudel, U. ter Meulen, C. Wollny, H. Dahal and M. Gauly</i>	164
Status and problems in management practices of indigenous chicken in rural areas of Chitwan	
<i>Dawa T. Tamang, Naba R. Devkota, Mana R. Kolachhapati</i>	177
Status of backyard duck farming in tharu and darai community of Chitwan, Nepal	
<i>A. K. Parajuli, M.R. Kolachhapati and N. R. Devkota</i>	183
Study on the productive and reproductive performance of indigenous lime buffaloes in the western hills of Nepal	
<i>M.K.Shah, H.R. Acharya, Y.K. Shrestha, K.P. Dhungana and R U Mahato</i>	190
A case study on transhumant migration of <i>barawal</i> sheep and their crossbreeds in the Kanchenjunga conservation area of Nepal	
<i>S.R. Barsila, I. Barsila, N.R. Devkota</i>	194
Rearing of Giriraja chicken to increase farm income and improving livelihoods of small farmers in Jiri, Dolakha	
<i>S.B.Shrestha, S.M.Pradhan and M. Karki</i>	200
Strategies for sustainable broiler chicken entrepreneurship development under high environmental temperature in mid and far western region of Nepal	
<i>K. K. Neupane</i>	207

SOCIO ECONOMICS

Buffalo production system and associated constraints and opportunities with buffalo raising in far western region of Nepal	
<i>M. B. Nepali, M.R. Tiwari, S. Adhikari and S. Sapkota</i>	215
Handling, Processing and Marketing of milk in Nepal	
<i>Toya Nath Joshi, Nirajan Bhattarai, Srijana Marasini and Dawa T Tamang</i>	224
Role of village animal health workers in the past, present and future of livestock farming system in Nepal	
<i>Bhoj Bahadur Kshatri</i>	231
A case study on poultry farming an enterprise opportunity in central development region of Nepal	
<i>K. R. Jashi, S.M. Pradhan, M.B. Nepali, S.M.Amatya, S.D.Gautam and K.P.Timisina</i>	237

FISHEREIS

Oxygen uptake of a hillstream cyprinid, <i>Schizothorax richardsonii</i> (gray) in relation to body weight <i>C. N. R. Yadav, T. K. Ghosh and B. R. Subba</i>	246
Productivity assessment of fish farmer's ponds under varying management in terai and mid hills of Nepal <i>Surendra Prasad, Jay D Bista, Md A Husen, Agni P Nepal and Ram K Shrestha</i>	254
Trophic status of Phewa, Begnas and Rupa lakes of Pokhara valley, Nepal <i>Md Akbal Husen, Jay Dev Bista, Ram Prasad Dhakal, Surendra Prasad and Agni Prasad Nepal</i> ...	261
Proximate and microbial analysis of fresh, dried and fried Naini fish (<i>Cirrhinus mrigala</i>) <i>Neeta Pradhan, Nand K. Roy, Suresh K. Wagle and Man B. Shrestha</i>	267
Effect of temperature on growth of sahar fry (<i>Tor putitora</i>) at early stage <i>Jay D. Bista, Agni P. Nepal, Ram K. Shrestha, Surendra Prasad and Bharat K. Shrestha</i>	272
Fish diversity of the Narayani river system in Nepal <i>Dilip Kumar Jha</i>	276
Participatory seed production of trout (<i>Onchorhynchus mykiss</i>) for sustainable mountain aquaculture in Nepal <i>Suresh K. Wagle, Sadhu R. Basnet, Neeta Pradhan, Raja M. Mulmi, Gopal P. Lamsal</i>	288
Study on the initial feed for larval rearing of goldfish (<i>Caratus auratus</i>) in Pokhara, Nepal <i>Ram K Shrestha, Jay D Bista and Bharat K Shrestha</i>	298
Growth performance of pond reared sahar (<i>Tor putitora</i>) in Kali Gandaki, Syangja, Nepal <i>Arun Prasad Baidya, Agni Prasad Nepal and Purushottam Lal Joshi</i>	302
Recommendation and Declaration	309
Programme	313
List of Participants	319