



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

S542
.B3J68

ISSN 1810-3030

Volume 3

Number 1

June, 2005

জ্ঞান • দক্ষতা • চরিত্র

Journal of the
Bangladesh Agricultural
University

বাংলাদেশ কৃষি বিশ্ববিদ্যালয়

Published by
Bangladesh Agricultural University Research System

Journal of the Bangladesh Agricultural University

Bangladesh Agricultural University Research System (BAURES)

Bangladesh Agricultural University

Mymensingh-2202, Bangladesh

Volume 3

Number 1

June, 2005

Editorial Board

(2005-2007)

Chief Editor : Professor Dr. Md. Rafiqul Islam Sarker, Director, BAURES

Executive Editor: Professor Dr. Md. Motahar Hussain Mondal
Associate Director, BAURES

Managing Editor: Md. Saiful Islam, Deputy Director, BAURES

Members

Professor Dr. A.T.M. Ziauddin
Department of Farm Power & Machinery, BAU, Mymensingh

Professor Dr. Md. Ali Akbar
Department of Animal Nutrition, BAU, Mymensingh

Professor Dr. M. Serajul Islam
Department of Agricultural Economics, BAU, Mymensingh

Professor Dr. M. Abul Hashem
Department of Soil Science, BAU, Mymensingh

Professor Dr. M. Myenuddin
Department of Physiology, BAU, Mymensingh

Professor Dr. M. Nazrul Islam
Department of Fisheries Technology, BAU, Mymensingh

Professor Dr. Md. Abdur Rahim
Department of Horticulture, BAU, Mymensingh

Journal of the Bangladesh Agricultural University

Journal of the Bangladesh Agricultural University is a half-yearly journal published in June and December on behalf of the Bangladesh Agricultural University Research System (BAURES). Original research papers, review articles and short communications are accepted on the basis of their quality and national/international context. On the decision of the Editorial Board, papers are reviewed by experts in relevant fields. The Editorial Board is the final authority to take decision on publication.

Published by

Chief Editor

Director, Bangladesh Agricultural University Research System (BAURES)
Bangladesh Agricultural University, Mymensingh 2202, Bangladesh

Subscription Rates

For individual : BAU Teachers Tk. 100.00 per copy
Others Tk. 200.00 per copy

For institutions : Tk. 300.00 per copy
For overseas : US \$ 10 per copy

All correspondences regarding publication, subscription etc. of the journal should be made directly to the Chief Editor, Journal of the Bangladesh Agricultural University, Bangladesh Agricultural University Research System (BAURES), BAU, Mymensingh 2202, Bangladesh. Tel. & Fax: +880-91-55908.

Printed by

Tithy Offset Printing Press

14, Amritababu Road (Golpukur Par)
Mymensingh
Phone : 091-55168

Contents

Crop Science

- 1 Effects of planting date and bulb size on the yield and economics of onion grown from sets– M.F. Mondal, H.K. Sarker and M.B. Mia 1
- 2 Effects of planting date and GA₃ on growth, yield and quality of onion seeds grown from set– A.K.M.M. Islam and M.F. Mondal 7
- 3 Effect of defoliation at vegetative stage on dry mass production and yield in cowpea– M.I. Biswas, M.A. Hossain and M.S.A. Fakir 13
- 4 Extractable phosphorus in some soils of Bangladesh and its critical limits for mustard– M.Q. Haque, A. Faruque, M.M.R. Jahangir, M.H. Rahman and M.A. Matin 21
- 5 Performance of Indian spinach in association with Eucalyptus for agroforestry system– K.L. Hossain, M.A. Wadud, K.S. Hossain and M.R. Abdullah 29
- 6 Decomposition pattern of two green manures in BAU farm soil– N. Parvin, M.A.H. Chowdhury and H.S.J. Ferdous 37
- 7 Evaluation of six plant extracts for their possible repellent effects against lesser mealworm, *Alphitobius diaperinus* (Panzer)– M. Kamruzzaman, M. Shahjahan and M.L.R. Mollah 43
- 8 Effect of brassinosteroid (TNZ-303), chloro indole acetic acid (CL-IAA) and GABA on vegetative growth of lentil– M.O. Islam, M.F. Dakua and Y. Kamuro 49
- 9 Genetic divergence in soybean (*Glycine max* (L.) Merrill)– A.K. Datta, M.A. Hossain and L. Rahman 59
- 10 Influence of phosphorus, zinc and molybdenum on nutrient and β -ODAP contents of grasspea (*Lathyrus sativus* L.) seed– M.T. Hossain, M.A. Hossain and M.A. Sattar 65

Livestock

- 11 Study on the quality of the Rassomalai manufactured in laboratory and sweetmeat shops of different districts of Bangladesh– S. Yasmin, A. Wadud, M.N. Islam and T. Hasan 71
- 12 Perineal musculature in the Black Bengal goat– Z. Haque, M.A. Quasem, M.R. Karim and M.Z.I. Khan 77
- 13 Epidemiological investigation of hydatidosis in ruminants in different slaughterhouses of Dhaka– S.A. Sarder, M.A. Ehsan, A.K.M.M. Anower, and M.M. Rahman 83
- 14 Avian liver fluke infection in indigenous ducks in Bangladesh: prevalence and pathology– Anisuzzaman, M.A. Alim, M.K. Islam, P.M. Das, T. Farjana and M.M.H. Mondal 87
- 15 Hematology of anorectic, anemic and hematinic treated cattle– M.M. Rahman, M.A. Miah, S. Majumder, M.M. Alam, M.Z. Hosain and M.M. Rahman 95

- 16 Study on the productive and reproductive performance of 3 native genotypes of chicken under intensive management- R. Khatun, M.S. Islam, S. Faruque, S.A. Azmal and M.S. Uddin 99

Fisheries

- 17 Changes on haematological parameters of artificially infected Thai pangus *Pangasius hypophthalmus* by *Edwardsiella tarda* bacteria- M.M. Rashid, M.M. Alam, M. Abdurrazzak and K.J. Bhuiyan 105
- 18 Estimation of fecundity of endangered indigenous sarpunti, *Puntius sarana*- B.K. Chakraborty M.I. Miah, M.J.A. Mirza and M.A.B. Habib 113
- 19 Population ecology and infestation of monogenetic trematodes in juvenile carp fishes of Mymensingh- A.K. Barai, K.J. Chandra and S. Majumder 121

Agricultural Engineering

- 20 E-STAT: A computer model to perform statistical analysis of experimental data- M.H. Ali 133
- 21 Reference crop evapo-transpiration (ET_0) over Bangladesh and its implication in crop planning- M.H. Ali, M.G.M. Amin and A.K.M.R. Islam 139
- 22 Studies on solar radiation and potential crop production at Comilla, Bangladesh- A.K.M. Adham, M.H. Ali and F.A. Khanom 149

Economics and Rural Sociology

- 23 Profitability of mechanical thresher and dryer in rice processing system in Bangladesh: A financial analysis- H. Mamtaz, M. Akteruzzaman and S. Akhter 155
- 24 Agribusiness of poultry and poultry products in Bangladesh S.B. Alam, M.A.K. Azad and S.A. Sabur 163
- 25 Channel of remittances - A micro level study- M.S. Haque and M.A. Bashar 173
- 26 Relative profitability of different aged betel leaf production at farm level in some selected areas of Bangladesh- M.R.H. Mridha, H. Jahan and M.M. Murshed 181
- 27 Profitability and resource use efficiency of BR-29 Boro paddy production in Jamalpur district- M.H. Rahman, M.A. Khan, H. Kabir and M.M. Rahman 189