



Agronomy Newsletter

(A Publication of the Department of Agronomy, SAU)

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Editorial

Academic and Research activities of the teachers and students of the Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka during January-December, 2007 has been summarized in the newsletter.

The Department offers different courses both undergraduate and graduate levels. Already 26 students have obtained their M.S. degree from this department. Besides, at present 50 students are studying for M.S. degree.

Professor Prasanta Chitta Bhowmik Department of Soil, Crops and Insect, University of Massachusetts Amherst, USA has visited the Department as a Fulbright Scholar and conducted the Applied Weed Science Course for M.S. student.

Dr. H. M. M. Tariq Hossain, Associate Professor has come back from Korea after completion of his PhD degree.

Department of Agronomy has successfully completed the 5th batch of Postgraduate Certificate Course on Seed Technology funded by SID/DANIDA-MoA.

We believe that our academic activities would enhance in the coming days.

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Programme and activities of the Department of Agronomy, SAU (January 2007-December 2007)

Degree Programme

MS Programme:

An academic year is divided into two semester viz., January-June and July-December. An student has to complete the degree within five semesters. He/she must earn minimum of 47 credit hours, at least 30 credit hours for courses, 1 credit hour for seminar and 16 credit hours for the research followed by thesis presentation.

Bachelor Programme:

There are two semesters (Semester-I and Semester-II) in an academic year. Semester-I starts in January and Semester-II in July of each academic year. The B.Sc. Ag. (Hons.) degree is a four year programme consists of 8 academic semesters. A student has to complete 182 credit hours for the degree of which 23 credit hours from Agronomy.

Orientation Programme

Orientation Programme of M.S, 2007 were organized by the Department for the new students of January-June and July-December Semester. The programme were chaired by the Chairman of the Department Dr. Parimal Kanti Biswas. Teachers were addressed their speech regarding the facilities and motive of the Department. Students also expressed their feelings. The students were received with cordial welcome.

M. S. Activities

The department initiated M.S. courses in Agronomy from January 2004. So far 26 students awarded the M.S. degree. Further 13 students have been submitted their theses for evaluation. Thesis defense of those students will be held soon.

Seminar/Workshop

Professor Dr. Prasanta C. Bhowmik delivered two seminars – one on “Present status and prospect of allelopathy in agriculture” held on April 19, 2007. The other one was on the “Potential benefits of transgenic crops” held on May 23, 2007. Dr. H.M.M Tariq Hossain, Associate Professor delivered a seminar on “Metabolic Engineering for Biosynthesis of Tocotrienol in *Perilla frutescens* (L.) Britton” held on November 15, 2007.

Prof. Dr. A. M. Farooque, Vice-Chancellor, Sher-e-Bangla Agricultural University was the Chief Guest in these seminar. Director (Research) of the Sher-e-Bangla Agricultural University Research System (SAURES) was presided over the seminars.



Farewell/Cultural Activities

A warm farewell ceremony was arranged on the honour of Prof. Prasanta C. Bhowmik on June 17, 2007 at the Conference Room of SAU. All the teachers, staff and M.S. students of the department contributed the programme. Honourable Vice-Chancellor of the university was present as a Chief Guest. Special Guests were Prof. Md. Shadat Ulla, Chairman, Department of Agricultural Extension and Information System; Prof. Md. Shamsul Hoque, Co-ordinator, CASR; Prof. Dr, Md. Hazrat Ali, Dean, Faculty of Agriculture and Prof. Dr. Shahidur Rashid Bhuiyan, Director (Research), SAURES. Chairman of the

Department Prof. Dr. Parimal Kanti Biswas presided over the programme.



An entertaining cultural programme was held by the participation of Departmental students. Different items like recitation, songs and fun shows were performed by the teachers and students.

Workshop Attended

Md. Obaidul Islam, Assistant Professor attended the Training on "Hybrid Rice Seed Production" organized by Bangladesh Rice Research Institute (BRRI) on 2-3 May, 2007.

Prof. Dr. Md. Hazrat Ali, Prof. Dr. Md. Fazlul Karim, Prof. Dr. Parimal Kanti Biswas and Prof. Dr. Md. Jafar Ullah attended the Workshop on "Strengthening of Pulse & Oilseed Research Programmes in Bangladesh" organized by Bangladesh Agricultural Research Institute on 24-25 July, 2007.

Md. Obaidul Islam, Assistant Professor and Mr. Mirza Hasanuzzaman attended the Training Workshop on Integrated Water Resources Management (IWRM) with special focus on Scientific Methodology and Development of Grant Application, organized by Bangladesh Centre for Advanced Studies (BCAS), Dhaka, Bangladesh on 28-29 October, 2007.

Prof. Dr. Parimal Kanti Biswas and Mr. Mirza Hasanuzzaman, attended the Workshop on Informed Policy Making For Food Security: Research in support of the National Food Policy organized by FAO and The Food Planning and

Monitoring Committee (FPMC), GoB held in Dhaka on 5-6 December, 2007

Visits

Prof. Dr. Md. Hazrat Ali attended the Educative Seminar and 1st Vice President Forum of the University Mobility in Asia and the Pacific (UMAP) held in Thailand during 4 - 6 October, 2007. He was acted as a Panel Speaker of the occasion and presented a paper on "UMAP Staff Mobility Programme"

Higher Study

One of our colleagues Dr. H.M.M. Tariq Hossain has received Ph.D. on Metabolic Engineering from Soonchunhyang University of the Republic of Korea. His research title was Metabolic Engineering for Biosynthesis of Tocotrienol in *Perilla frutescens* (L.) Britton.

Md. Shahidul Islam is at the end of his Ph.D work. He is doing his study at Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh. His research is on "Water stress tolerance of mungbean genotypes as influenced by plant growth regulators".

Mr. Tuhin Suvra Roy is doing Ph.D in Yamagata University, Japan funded by JSPS (RONPAKU) Programme. His research title is "Studies in the production and utilization of hybrid True Potato Seed in Bangladesh"

Md. Abdullahil Baque is doing his Ph.D at Research Center for the Development of Advanced HortTech (Lab of excellence), in Chungbuk National University, Republic of Korea. He is working on "Biomass and Bioactive Compound Production from Adventitious Root and Callus cell suspension culture of *Morinda citrifolia* in Bioreactor" under Brain Korea (BK 21) project.

Research Projects

1. Reduction of chemical fertilizer in maize using Nutrismart – an ecofriendly fertilizer. Funded by: Bangladesh University Grants Commission (UGC)

Principal Investigator: Prof. Dr. Parimal Kanti Biswas

Duration: 1 year (November 2007 to October, 2008)

Status: On going

2. Cultivation of rice using different planting techniques. Funded by: SAURES

Principal Investigator: Prof. Dr. Parimal Kanti Biswas

Duration: 2 years (June 2005 to May, 2007)

Status: Completed

Publications (2006-2007)

S. M. Akhter and P.K. Biswas. 2006. Shattering, yield and yield attributes of mustard as affected by harvesting time and variety. *Bangladesh J. Agric.* 31(1&2): 51-59.

P. K. Biswas, M. A. Rahman and M.S. Zannat. 2007. Influence of top cutting and mixtalol spray on growth and yield of cowpea. *Bangladesh J. Agric. Env.* 3(1):89-91.

M.A. Main, P.K. Biswas and M.H. Ali. 2007. Influence of planting materials and planting methods on yield and yield attributes of inbred and hybrid rice. *Journal of Sher-e-Bangla Agric. Univ.* 1(1):72-79.

S. Dhar, P. K. Biswas and A.K.M.R. Amin. Influence of water levels and seedling number hill⁻¹ on yield and water use efficiency of boro rice. *Bangladesh J. Agric.* (Accepted).

Q. N. Ahmed, P. K. Biswas and M.H. Ali. Yield and yield attributes of inbred and hybrid rice as influenced by cultivation methods. *Bangladesh J. Agric.* (Accepted).

Karim, M. F. and Q. A. Fattah. 2007. Growth analysis of chickpea (*Cicer arietinum* L.) cv. Barichhola-6 as affected by foliar spray of two growth regulators. *Bangladesh J. Bot.* 36(2) (In press).

Hasanuzzaman, M. and M. F. Karim. 2007. Performance of rapeseed (*Brassica campestris*) cv. SAU-C-F₇ under different row spacings and irrigation level. *Res. J. Agric. Biol. Sci.* 3(6).

Roshni, R., M. F. Karim and M. Hasanuzzaman. 2007. Response of rapeseed (*Brassica campestris* L.) to different nitrogen doses and number of weeding. *Middle-East J. Sci. Res.* 2(3-4): 146-150.

Hasanuzzaman, M., M. F. Karim, Q. A. Fattah, K. Nahar and M. R. Karim. 2007. Yield performance of chickpea varieties following application of growth regulator. *Amer.-Eur. J. Sci. Res.* 2(2): 117-120.

Karim, M. F., Q. A. Fattah and A. B. M. Khaleduzzaman. 2006. Changes in biocomponents of chickpea (*Cicer arietinum* L.) sprayed with potassium naphthenate and naphthalene acetic acid. *Bangladesh J. Bot.* 35(1): 39-43.

Karim, M. F., Q. A. Fattah, M. Z. Hossain, M. S. Islam and H. M. M. T. Hossain. 2006. The influence of potassium naphthenate and naphthalene acetic acid on yield performances of chickpea (*Cicer arietinum* L.). *J. agric. sci. technol.* 7(1 & 2): 80-84.

Islam, M. S., M. F. Karim, M. J. Ullah, Q. A. Fattah and M. I. Hossain. 2006. Effect of KNap and NAA on shoot dry matter, yield attributes and yield of lentil (*Lens culinaris*). *J. agric. educ. technol.* 9(1 & 2): 55-58.

Ullah, M. J., M. F. Karim, A. T. M. Shamsuddoha and N. J. Begum. 2006. Effect of nitrogen and row spacing on the potassium uptake pattern of foxtail millet (*Setaria italica* (L.) Beauv.). *Karnataka J. Agric. Sci.* 18(4): 896-902.

H.M.M. Tariq Hossain, Yong-Ho Kim, Kyung-Hwan Kim and Young-Sang Lee 2007. Metabolic Engineering for Biosynthesis of Tocotrienol in *Perilla frutescens* (L.) Britton. *Korean J. Crop. Sci.*

H.M.M. Tariq Hossain and Young-Sang Lee 2007. Transient *in vivo* assay of rice cDNA for tocotrienol production in *Nicotiana benthamiana* (L.). *Soonchunhyang J. Nat. Sci.* 13(1): 1-5.

H.M.M. Tariq Hossain; K.H. Kim and Y.S. Lee 2006. High frequency *in vitro* regeneration from hypocotyls explants of leafy *Perilla*

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- M.J. Ullah; H.M.M. Tariq Hossain and M.A. Baque 2006. Yield response of bushbean (*Phaseolus vulgaris* L.) to doses of fertilizers and sowing times in Bangladesh. Korean J. Crop Sci. 51(6): 491-496.
- Ullah, M. J. 2006. Effect of water logging on germination, emergence and subsequent development of mungbean (*Vigna radiata*), Karnataka J. Agric. Sci. 19(3):513-516.
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- Ullah, M. J.; Hossain, F. and Fattah, Q. A. 2006. Effect of growth regulators on leaf pigments, leaf area and leaf dry matter of cowpea cv. Bari Falon-2 (*Vigna unguiculata* (L.) Walp.). *J. Agric. Sci. Technol.* 5(1&2):28-33.
- Hossain, M. A.; Hossain, M. Z.; Hossain, M. I.; Zahan, W. A. and Ullah, M. J. 2006. Study on intercropping groundnut with carrot. *J. Agric. Sci. Technol.* 7(1&2): 49-53.
- Ullah, M. J., Fattah, Q. A. and Hossain, F. 2006. Effect of potassium naphthenate on yield attributing characters and seed yield of cowpea cv. Bari falon 1 (*Vigna unguiculata* (L) Walp.) grown under early rabi season. *Bangladesh J. Bot.* 36(1):29-32.
- Ullah M. J. Hossain, F. and Fattah Q. A. 2007. Effect of growth regulators on the growth and yield of cowpea (*Vigna unguiculata* (L) Walp.). *J. Shere-e-Bangla Agric. Univ.*
- Roy, T. S., T. Nishizawa and M. H. Ali. 2006. Storability of tubers derived from true potato seed (*Solanum tuberosum* L.) under ambient storage conditions. *Asian J. Plant Sci.*, 5(2): 243-247.
- Roy, T. S., T. Nishizawa and M. H. Ali. 2007a. Flower, berry and true potato seed production in potato mother plants (*Solanum tuberosum* L). 1. Effects of nitrogen and phosphorus fertilizers. *J. Agron.*, 6(1): 106-112.
- Roy, T. S., T. Nishizawa and M. H. Ali. 2007b. Flower, berry and true potato seed production in potato mother plants (*Solanum tuberosum* L). 2. Effects of nitrogen and potassium fertilizers. *J. Agron.*, 6(1): 89-94.
- Roy, T. S., T. Nishizawa and M. H. Ali. 2007c. Seed quality as affected nitrogen and potassium during true potato seed production. *Asian J. Plant Sci.*, 6(8): 1269-1276
- M. A. Baque, M.O. Islam, M. H. Kabir Shiragi, and H. M. M. Tariq Hossain. 2007. Effect of seed rate and time of harvest on yield and quality of wheat seed. *International Journal of Sust. Agric. Technol.* 3(3): 58-64
- M. O. Islam and M. Salim. 2006. The evaluation of the performance of productivity, economics and quality of the late sown jute seed production influenced By intercropping with transplant aman rice under different planting geometries. *J. Bangladesh Sci. Foundation.* 2(2):52-57.
- Baque, M.A., M.A. Karim, A. Hamid and T. Hidaka. 2006. Effects of Fertilizer Potassium on Growth, Yield and Nutrient Uptake of Wheat (*Triticum aestivum* L.) under Water Stress Conditions. *Journal of South Pacific Studies, Kagoshima University, Japan.* 27 (1):25-35.
- Miah, M. A. B., M. M. Rahman, M. M. Hoque and M. A. Baque. 2006. Effect of storage relative humidity on germination and vigour of soybean seed. *Intl J. of Eng. Technology, Bangladesh.* 3 (1): 17-24.
- Kulsum, M. U., M. A. Baque, M. A. Karim. 2007. Effects of different N levels on the morphology and yield of Blackgram. *J. Agron.* 6(1): 125-130.
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- Hasanuzzaman, M., K. Nahar and M. R. Karim. 2007. Effectiveness of different weed control methods on the performance of

transplanted rice. Pak. J. Weed Sci. Res. 13(1-2): 17-25.

Hasanuzzaman, M., M. F. Karim and M. J. Ullah. 2008. Growth dynamics of rapeseed (*Brassica campestris* L.) cv. SAU sarisha-1 as influenced by irrigation levels and row spacings. *Australian Journal of Basic and Applied Science*. (Accepted)

Ahamed, K. U., S. M. M. Hasan, A. M. M. Shamsuzzaman, M. Hasanuzzaman and K. Nahar. 2008. Performance of some indigenous mulches on the growth and yield of potato (*Solanum tuberosum* L.). *Bangladesh J. Prog. Sci. Technol.* (Accepted).

Asaduzzaman, M., M.F. Karim, M.J. Ullah and M. Hasanuzzaman. 2008. Response of mungbean (*Vigna radiata* L.) to nitrogen and irrigation management. *American-Eurasian Journal of Scientific Research*. (Accepted)

M.S. Theses

Mirza Hasanuzzaman. 2005. Performance of rapeseed (*Brassica campestris*) line SAU-C-F₇ to different row spacing and irrigation level.

Shikder Md. Mohimen Akhter. 2005. Effect of harvesting time on shattering, yield and oil content of rapeseed and mustard .

Md. Rokonuzzaman. 2005 Influence of nitrogen and naphthalene acetic acid on the yield of summer mungbean (*vigna radiata* (L.) Wilczek) cv. BARI Mung-3

Md. Shofikul Islam. 2005. Response of nitrogen and sulphur on the yield of rapeseed (*Brassica campestris*) line SAU-C-F₇.

Md. Ferdousul Alom. 2005. Yield and quality of jute seed (O-72) as affected by different dates and methods of sowing in the late season.

Shamima Akther. 2005. Physiological and biochemical studies on the quality of kenaf (*Hibiscus cannabinus* L.) seed as affected by storage period, type of container and genotype.

Md. Afzal Hossen. 2005. Effect of sowing date on yield and yield components of rapeseed varieties.

Dilruba Jesmin. 2005. Effect of variety and sowing date on the yield of chickpea (*Cicer arietinum* L.).

Roshni Rashid. 2006. Effect of nitrogen levels and number of weeding on the yield attributes and quality of rapeseed.

Mohammad Kamrul Hasan. 2006. Effect of nitrogen and phosphorus on the yield, yield characters and seed quality of rapeseed (*Brassica campestris*) line SAU-C-F₇.

Sanjit Dhar. 2006. Growth and yield of boro rice as influenced by water level and seedling number hill⁻¹.

Kakali Roy. 2006. Growth and yield of wheat (*Triticum aestivum* L.) as influenced by nitrogen and seed rate.

Shirin Rowshan Ara Jahan. 2005. Effect of irrigation on the growth and yield of soybean (*Glycine max* L.) varieties.

Md. Abdul Main. 2006. Influence of planting technique on growth and yield of aman rice.

Mohammad Abdul Latif. 2006. Influence of irrigation and nitrogen on the yield of rapeseed (*Brassica napus*).

Mohammad Sarfuddin Bhuiyan. 2006. Seed yield and oil quality of mustard as influenced by date of planting.

Muhammad Anwar Hossain. 2006. Effect of seedling age on the yield of two modern varieties of aromatic rice (cv. BRRI dhan-37 & BRRI dhan-38).

Md. Ashrafuzzaman. 2006. Performance of MV and hybrid rice with different dates of tiller separation.

Abul Kalam Muhammad Ahad. 2006. Effect of row and nitrogen managements on the yield of kharif maize as intercropped with mungbean.

Khandaker Yasen Mohammad Shoukat. 2006. Effect of manuring and split application of nitrogen on grain yield and quality of maize.

Quazi Nasim Ahmed. 2006. Influence of different cultivation methods on growth and yield hybrid and inbred.

Md. Asaduzzaman. 2006. Effect of nitrogen and irrigation managements on the yield attributes and yield of kharif mungbean.

Kaniz Fatima. 2006. Effect of different levels of nitrogen and phosphorus on yield and yield attributes of sesame.

Mohammad Nazrul Islam. 2006. Effect of nitrogen and irrigation management on the yield attributes and yield of kharif black gram.

Md. Salah Uddin. 2006. Effect of bio fertilizer on the growth and yield of summer mungbean.

Mohammad Khaled Mostafa. 2006. Effect of inoculums and levels of phosphorous on the growth and yield of summer mungbean.

Jasmine Ara Chowdhury. 2006. Root growth, dry matter accumulation, nutrient uptake, and yield of mungbean varieties influenced by phosphorus.

Md. Enamul Islam. 2006. Intercropping fodder grasspea with wheat at different fertilizer doses and seed rates.

Sujit Howlader. 2006. Performance of wheat-bushbean intercropping under different row ratios.

Jhilmil Roy. 2007. Influence of seedling depth and plant density on establishment, growth and yield of wheat.

Lalita Rani Roy. 2007. Influence of weeding on growth and yield of rapeseed varieties.

Md. Zahidul Islam. 2007. Effect of nitrogen and irrigation managements on the yield attributes and yield of rabi black gram.

Muhammad Mahbubur Rashid. 2007. Effect of nitrogen doses on spikelet sterility and yield of boro rice.

Sadia Sultana. 2007. Effect of irrigation and varieties on the yield of mustard.

Md. Obaidullah. 2007. Influence of clonal tiller age on growth and yield of inbred and hybrid rice.

Mahfila Zafreen. 2007. Effect of fertilizer on the growth and yield of soybean (*Glycine max*) varieties.

S. M. Rabiul Karim. 2007. Effect of storage conditions and storage durations of uprooted seedlings on the performance of BR 38 rice.

Mohammad Ali. 2007. Influence of integrated weed management and spacing on the growth and yield of transplanted aman rice.

Iftexhar Ahmed. 2007. Performance of advance lines of aromatic rice under different transplanting dates.

List of Teachers

1. Professor Md. Sadrul Anam Sardar
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Abu Nesar Md. Ansary
Jayanta Bhattacharya
C.M. Rezaul Karim
Md. Nazim Uddin

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Bulbul Ahmed
Mohammad Khaled Hossain
Md. Jakir Hossain
Fariza Nur
Md. Abdul Alim
Mohammed Mamunur Rashid
Md. Monzur Morshed
Mosharof Hossain
Romany Jahan
Md. Zakaria Reza
Shamim Ara Bagum
Yasmin
Jamil Hossain
Shubha Ankur Bhattucharje
Md. Imam Husain
Mosaref Hossain
Md. Mohibur Rahman
Masud Reza
Md. Mahmudur Rahman
Monira Begum

Research Semester

Md. Anowar Hossain
Razia Sultana Ratna
Md. Rashedul Haque

Sheikh Mohammad Masum
Lima Rifat
Md. Abu Royhan
Md. Halim Ahmed
Abu Nadir Shahab Uddin Ahmed Siddiqui
Shamima Sultana
Md. Rokibul Hasan
Kaniz Fatima
Md. Masud Rana
Mousumi Sultana
Sumit Ghosh
Md. Mahabub Alam
Md. Asif Iqbal
Promita Shikha Roy
Syeda Safina-E-Sanjida
Rifat Tanjila
Mohammad Shofayel Hossain
Md. Bazlur Rahman
Shah Mohammad Jalal Uddin
Md. Shajedul Islam
Kanak Kumar Biswas
Faila Saberin
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