



CRRI Newsletter, January-March 2006

Mass Multiplication of Natural Enemies and Studies on Egg Parasitoids of Rice Pests

OBSERVATIONS on the natural egg parasitism of yellow stem borer of rice indicated that *Telenomus dignoides* was the dominant parasitoid with 42.8% parasitism followed by *Trichogramma japonicum* (17.8%) and *Tetrastichus schoenobii* (7.14%). Partial parasitism by *T. dignoides* to the extent of 58.3% was also observed.

Assay of Bt against Leaf Folder

THE bacteria isolated from the Bt formulations (biolep, bioasp and halt) and indigenous Bt var. *morrisoni*, *tolworthi*, *thompsoni* and *kurstaki* were tested in the laboratory on diet assay by spraying on potted plants against leaf folder. Compared to indigenous Bt, the formulations were effective against the pest effecting more than 50% mortality for same dose of inoculums.

Management of Rice Storage Insects

COMBINED formulation of eucalyptus oil mixed with sunflower oil (1:1) applied as paddy grain treatment at 1 mlkg⁻¹ grains showed absolute grain protection against paddy moth, *Sitotroga cerealella* Oliv. and lesser grain borer, *Rhyzopertha dominica* Fabr. for 6 months under artificial infestation of the test insects.

Insuf (Sulfer 80% WP), the micronized wettable sulphur was evaluated as paddy seed protectant against two major insect pests of stored paddy (*S. cerealella* and *R. dominica*). Admixing of the insuf at 1gkg⁻¹ seeds could absolutely check the multiplication of the test insects under artificial infestation for a period of 12 months, without adversely affecting the viability of the seeds. For the first time sulphur is recorded to be an effective paddy seed protectant having application cost of only Rs. 8 per 100 kg seeds.

Effect of Different Treatments on Quality of Brown Rice during Storage

BROWN rice is richer in nutrients than the milled rice but has a relatively shorter shelf life and gets infested with pests and microbes during storage for long periods of time. This is a big problem in its popularization among the rice consumers. It was observed that the samples stored at room temperature with Parada Tikia (Jandu Pharmacy) at 1 tablet per half kg grain and boric acid at 1 gkg⁻¹ grain remained free from any infestation up to 3 months. The same was true with the sample kept at 10°C to 12°C. Among

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KVK, Santhpur

Trainings Organized

Ten training programmes on post harvest technology, medicinal plant cultivation, improved package of practices of vegetable cultivation, groundnut cultivation and fodder cultivation were conducted on 28 Jan and 16 Feb at different villages under KVK, Santhpur. More than one hundred farmers benefited from these training programmes.

Front Line Demonstrations

Frontline demonstrations on oilseed crop like Groundnut (*var.* Smruti) and pulses like Blackgram (*var.* PDU-1) were conducted at village Budukunia, Arada and Sigmapur. The increase in yield in groundnut and blackgram was found to be 56% and 66% respectively over the local check.

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THE CRRI participated in the North -East Agri Expo 2006 organized by Government of Nagaland State held at Dimapur, Nagaland during 27-31 Mar 2006 which was inaugurated by Honourable Union Minister of Agriculture Shri Sharad Pawar. The CRRI showcased the advanced rice production technologies relevant to North-East Hills which were highly appreciated by the farmers, scientists and agro-entrepreneurs. Drs. N.K. Sarma, S.K. Rautray, and Shri D.R. Sahoo represented the institute in this exhibition.

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CRRI Newsletter, January-March 2006

Symposium/Conference/workshops/Visits/ Trainings Attended

SHRI M.N. Bhakta attended the training programme on “Statistical techniques for agricultural research with emphasis on use of softwares” held at IASRI, New Delhi from 21 Dec 2005 to 10 Jan 2006.

Dr P. Samal attended the 13th Annual Conference of the Agricultural Economics Research Association (India) at CSAUA&T, Kanpur during 6-7 Jan 2006.

Drs P. Samal and (Mrs.) J. Nayak attended the 2nd Annual Review and Planning Workshop of the IFAD funded multi stake holder project on “Accelerating technology adoption to improve rural livelihoods in the rainfed eastern Gangetic plains” at IGKV, Raipur from 18-20 Jan 2006.

Dr G.J.N. Rao attended the Review meeting of the Network Project "Transgenic in Crops" at NRCPB, New Delhi from 20-21 Feb 2006

Dr K.M. Das attended the short course training on "Biological Agents in the Control of Plant Diseases" at project Directorate, Biological Centre, Bangalore from 20-25 Feb 2006.

Shri D.S. Meena attended the Krushak Krishi Vigyan Mela at IARI, New Delhi from 23-25 Feb 2006.

Dr S.R. Dhua attended a National Seed Seminar on "Prosperity through quality seeds" at ANGRAU, Hyderabad from 24-26 Feb 2006.

Dr R. Bhagawati attended the short training course on "Bio-cides in plant disease management" at AC&RI, TNAU, Madurai from 20 Feb to 1 Mar 2006.

Dr H.N. Subudhi attended a computer training programme at CMC, Hyderabad from 6-10 Mar 2006.

Dr S.R. Dhua attended a training programme on “DUS testing” at seed Technology Department, IARI, New Delhi from 6-10 Mar 2006.

Dr (Mrs.) Lipi Das and Shri D.S. Meena attended the training programme on "Women groups for Agril. Development" at MANAGE, Hyderabad from 20-24 Mar 2006.

Dr J.N. Reddy attended Annual Planning Meeting of the "Eastern India Rainfed Low Land Shuttle Breeding Network" (EIRLSBN) held at New Delhi during 23-24 Mar 2006.

Radio and TV talks delivered

SHRI K.S. Behera, Principal Scientist, Entomology delivered a talk on “Integrated insect pest management in Rabi paddy” on AIR, Cuttack broadcast on 15 Feb 2006.

Dr (Mrs.) Mayabini Jena, Senior Scientist, Entomology delivered a talk on "Management of insect pests of rice through plant products" on Doordarshan telecast on 21 Feb 2006.

Shri R.C. Dani participated as expert in a discussion on “Integrated Rice Pest Management” on Doordarshan telecast on 6 Mar 2006 and delivered a talk on “Rice Pest Management” on E-TV telecast on 8 Mar 2006.

Visits

A total of 627 visitors comprising 490 farmers and farm women, 74 Agricultural Extension Officers, 61 Students and 2 NGO personnel visited the in-

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Dr P.K. Ghosh, Deputy Director (Research) and Dr S. Som, Deputy Director (Seeds) of Department of Agriculture, Government of Tripura visited the Rainfed Lowland Rice Research Station (RRLRRS), Gerua, Assam and had discussion with the scientists and Officer-in-Charge of the Station.