



APART RICE WEEKLY

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APART: RICE WEEKLY **(September 5-10, 2022)**

Installation of Trichocards and Pheromone Traps at KVK, Morigaon

There is a growing need to promote ecofriendly biological control methods against insect-pests of crops. An effective biological control method was used in Dealer Demonstrations against rice stem borers with the help of trichogramma, the egg parasitoid, and pheromone traps under Assam Agribusiness and rural Transformation Project (APART) at KVK, Morigaon.

Trichocards containing sterilized eggs were taken from the Department of Entomology, Assam Agricultural University, Jorhat for the trials. Each trichocard consisted of 10,000 to 20,000 eggs. At various locations of Morigaon district, the first release of cards in the paddy fields was done before emergence of the adult parasite. The cards were cut into small pieces and evenly placed in the entire field (@ 5 cards per ha for one-time release) by fixing them to the inner side of the leaf of the plants exposing the egg by using stapler. The subsequent releases will be done at weekly intervals.

Pheromone traps with scirpolure were installed in Cluster and Dealer demonstrations at various locations. The traps were installed with the help of bamboo sticks one foot above the crop canopy. The farmers were advised to change the lure in 15-20 days.

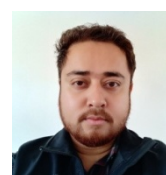
Mrs Porismita Dutta, PA and Mr Sanju Borgohain, APS demonstrated the installation and discussed the use and importance of its installation. Mr Rupom Bonia, RT and Mr Robin Hazarika, RT actively participated and helped in the installation programme.



Contributors:



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Installation of Pheromone Trap in Sali Paddy Demonstrations under RARS, Gossaigaon

On September 8, 2022, a field visit was organized by APART team, RARS, Gossaigaon to Bongaon & Pakhriguri villages under Kokrajhar district. Mrs. Anjela Deka (PA, APART), Mr. Monjit Das (RT, APART) and Mr. Pradyumna Kr. Mohapatra (RT, IRRI) visited Cluster demonstration under APART at Bongaon and Pakhriguri, respectively. The crop was in tillering stage, and pest and disease infestation was also observed by the team. Installation of pheromone trap with yellow stem borer lure as an IPM tool was successfully done at cluster demonstrations. Farmers were demonstrated the installation process, benefits of using pheromone trap at paddy field and also advised to change the lure after 15-20 days. They were

also suggested to have a close watch on the insects collected in the polythene bag of the pheromone trap and dump the collected insects in a proper way. During field monitoring, it was noticed that sucking insects had affected the crop, and incidence of BLB and brown spot diseases was also seen. Fipronil (2 g/ml) to control sucking insects and Propiconazole (1ml/l) against BLB and brown spot diseases were suggested to be sprayed in the field. Both, the chemicals and yellow stem borer lures, were distributed to the farmers under APART.



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Installation of Trichocards and Pheromone Traps at Ongoing *Sali* Paddy Cluster Demonstration under APART, KVK, Karbi Anglong

On September 7-8, 2022, installation of trichocards and pheromone traps, as an IPM tool, was successfully done in ongoing *Sali* paddy cluster demonstrations at two locations viz., Mohongdijua (Karbi Anglong) and Kheroni (West Karbi Anglong), under APART by KVK, Karbi Anglong. It was carried under the supervision of Dr. Lohit Kataki (SMS, Plant Protection, KVK, Karbi Anglong), Mr. Bishnu Jyoti Saikia (PA, APART), Ms Renuwara Parbin (APS, APART), Mr Ankur Bora (RT, APART) and Satya Jyoti Bora (RT, APART), KVK, Karbi Anglong. During installation programme, Dr. Lohit Kataki demonstrated the installation process and explained the benefits and mode of action of both pheromone traps and trichocards in detail to the farmers and requested them to monitor the pests regularly, which would be collected in the polythene bag attached to the pheromone trap.



Installation of Trichocard in Rice Field at Mohongdijua, Cluster Demonstration



Installation of Pheromone traps at Mohongdijua, Cluster Demonstration



Installation of trichocards in Rice Field at Kheroni (West Karbi Anglong) Cluster Demo

Contributors:



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Installation of Trichocards & Pheromone Traps under APART, KVK Dhubri

Pest problem is one of the major constraints for achieving higher production and productivity in agriculture crops. In view of the several disadvantages associated with the unscientific use of pesticides in agriculture and growing public concern over potential health hazards of synthetic pesticides, the exploration of ecofriendly pest management techniques such as Integrated Pest Management (IPM) has gained massive importance. IPM aims at suppressing the pest species by combining more than one method of pest control in a harmonious way with least emphasis on the use of insecticides. With practically no biological side effects, pheromone traps and trichocards are important IPM tools for pest management. Under APART, pheromone traps and trichocards were successfully installed by KVK, Dhubri in the Dealer and Cluster Demonstrations under the ongoing *Sali* paddy programme on September 3 and 6, 2022. Mr. Bikash J. Gharphalia (SMS, Agrometeorology), Ms. Kankana Bordoloi (PA, APART), Rimjim S. Bora (APS, APART), Chandan Bora and Sandhan Kr. Das (RT, APART) actively participated in the installation programme. The team members shared their views on IPM and explained the advantages of using trichocards and pheromone traps for keeping the pest population at bay. The farmers took keen interest in the installation procedure and were eager for the results.



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