

COTTON Innovate



Weekly Newsletter from Central Institute for Cotton Research, Nagpur

Visit : www.cicr.org.in

Issue : 4 Volume 5, May 25-31, 2014

RESEARCH ROUNDUP

Breaking yield barrier in mono-cropped rainfed cotton

Continuous mono-cropping of cotton is a common practice in rainfed areas because the quantity of rainfall does not permit double cropping. Cotton, when grown successively in the same land without rotation was found to yield less over the years. Even a fallow period intervening the two successive cotton crops was not found to be yield sustaining. From a decade long study at Coimbatore, it revealed that cotton-jowar cropping system maintained significantly higher (4.3 q/ha) seed cotton yield (by 42.2%) over the years with an additional jowar grain and straw yields than that cotton-fallow system. Growing of ragi (50 kg seed



rate/ha) in off season and incorporation at 45 days old crop with *Trichoderma viride* (10 packets mixed with 25 kg of farm yard manure) was found promising as compared with cotton-fallow system. This was standardized to provide cereal rotation effect to cotton by raising and incorporation of ragi by utilizing the off-season rain under rainfed condition. Additional cost of Rs. 4500/ha includes seed cost, *Trichoderma viride* cost, cost of sowing and incorporation in soil. With this technique seed cotton yield of 1977 kg/ha was recorded and effective rainfall use efficiency was 5.5 kg/mm. Cotton-fallow system registered seed cotton yield of 1390 kg/ha and total rainfall use efficiency of 3.9 kg/mm. This technology was demonstrated at NAIP village on large scale and 22 per cent yield increase and 25.7 per cent higher net profit was recorded as compared to cotton-fallow system.

K. Sankaranarayanan and N. Gopalakrishnan

Training Programme on IRM / HDPS (2014-2015)

One day training programme on Insect Resistant Management under High Density Planting System (IRM/HDPS) was organized by CICR, RS, Coimbatore on May 30, 2014. The training programme aimed to provide the technical details and guidelines on IRM/HDPS to the Agricultural Officers from the IRM/ HDPS implemented districts of Tamil Nadu. The training programme was conducted by Dr. (Mrs) B. Dharajothi, Principal Scientist and IRM State Coordinator (Tamil Nadu) and the session was chaired by Dr. A. H. Prakash, Project Coordinator and Head, CICR, RS, Coimbatore. The trainees comprised of Deputy Directors of Agriculture, Assistant Directors of Agriculture, Deputy Agricultural Officers, Agricultural Officers of Perambalur, Virudhunagar, Salem and



Coimbatore districts of Tamil Nadu state. The training programme highlighted the current problems faced in cotton cultivation and the necessity to revive the production system by adopting new techniques such as High Density Production System for increasing the cotton yield with minimum agricultural cost.

Dr. (Mrs.) B. Dharajothi in her lecture explained implementation methodology of the project “Project implementation and dissemination of IRM strategies” and critical points to be followed. Dr. K. Sankaranarayanan, Principal Scientist, CICR, RS, Coimbatore during his talk on “Agronomical aspects of HDPS” explained the agronomical practices to be followed for HDPS and he also shared his experience on the HDPS demonstration trials laid out. Dr. S. Usha Rani, Senior Scientist delivered a lecture on the novel method of disseminating the useful cotton cultivation tips to the farmers through electronic media known as e-Kapas. The participants actively participated in the discussions and clarified many of the queries related with High Density Planting System. The trainees were provided with relevant printed materials with details of IRM/HDPS techniques.



Produced and Published by : Dr. K. R. Kranthi, Director, CICR, Nagpur
Chief Editor : Dr. Nandini Gokte-Narkhedkar
Editors : Dr. J. Annie Sheeba, Dr. Vishlesh Nagrare, Dr. J. Amudha, Dr. M. Saravanan
Media Support & Layout design : Mr. M. Sabesh
Production Support : Mr. Sanjay Kushwaha

Citation : Cotton Innovate, Issue-4, Volume - 5, 2014, Central Institute for Cotton Research, Nagpur



Publication Note: This Newsletter presented online at <http://www.cicr.org.in/NewsLetter.html>
Cotton Innovate is the Open Access CICR Newsletter

The Cotton Innovate – CICR Newsletter is published weekly by
Central Institute for Cotton Research
Post Bag No. 2, Shankar Nagar PO, Nagpur 440010
Phone : 07103-275536 Fax : 07103-275529; email: cicrnagpur@gmail.com