COTTON INNOVATE

Cotton Innovate

A Monthly Newsletter from ICAR-Central Institute for Cotton Research, Nagpur

Specialized Pheromone Lure Application Technology(SPLAT-PBW), Photo By:Dr. Chinna Babu

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Cotton News and Innovations – May 2022

Research News Item

Impact of water logging on seed germination of different cotton species

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Central Institute for Cotton Research, Regional station, Coimbatore 641003, India

Cotton has poor adaptability to water logging, which is considered as one of the universal problems in global cotton production. The ideal condition for crop growth and development in upland crops is maintenance of relative volume of both soil air and soil moisture in equal proportion in the pore space. Soil containing excess water in the pore space by replacement of soil air (main source of oxygen for the roots as well as soil microbes) is said to be waterlogged. Elevated levels of CO2 in soil air under water logged conditions kill plant roots due to inhibition of root respiration. The root system of cotton does not develop functional parenchyma and endogenous levels of alcohol dehydrogenase, associated with anaerobic metabolism, are low. Studies reported that wide variability was seen among species and varieties for water logging tolerance.

Generally poor germination is observed in fields under conditions of water logging immediately after sowing and quite often resowing has to be done by farmers. Hence a pot culture trial is conducted with the objective to assess the effect of water logging on germination of different cotton species. The pot culture experiment was conducted at CICR, CBE in 2020-21 with Gossypium arboreum (PA 528), G. barbadense (Suvin), G. hirsutum (Suraj), G. herbaceum (G Cot 25), H x H (RCH 659 BG II) hybrid and H x B(MRC 7918 BG II) hybrid by imposing water logging for 36 hours immediately after sowing and compared with control. The results observed that water logging for 36 hours reduced the germination per centage by 40.5, 35.0, 21.0, 37.6, 24.5, and 26.3 respectively in arboreum (PA 528), barbadense (Suvin), hirsutum (Suraj), herbaceum (G Cot 25), H x H (RCH 659 BG II) and HX B(MRC 7918 BG II) (Table 1). The study indicated that diploids are more sensitive than tetraploids with respect to water logging.

Table 1. Germination per centage (%) of different cotton species under water logging

Treatments	Control (%)	Water logging (36 Hours) (%)	Reduction in Germination Per centage (%) by water logging as compared to control
T_1. *G.arboreum*(PA 528)	86.5	51.5	40.5
T_2. G.*barbadense*(Suvin)	71.5	46.5	35.0
T_3. G.*hirsutum* (Suraj)	71.5	56.5	21.0
T_4. G.*herbaceum* (G Cot 25)	66.5	41.5	37.6
T_5. HxH (RCH 659 BG II)	81.5	61.5	24.5
T_6. HX B(MRC 7918 BG II)	83.5	61.5	26.3

Research Notes Clipping

"Nano" – A compact cotton variety of ideal plant type for HDPS

Dr. S. Manickam, Principal Scientist, Plant Breeding and genetics, CICR, RS, Coimbatore

Nano is a long staple *hirsutum* cotton variety of ideal plant type with compact growth habit suitable for high density planting system (HDPS) suitable for commercial cultivation under both irrigated and rainfed conditions of central and south cotton growing states during *kharif* season. The variety has been released and notified for cultivation during August, 2022. It has a yield potential of 2859 kg/ha in South India and 2963 kg/ha in Central India combined with excellent fibre characteristics. The variety is ideally suitable for closer planting with a spacing of 90 cm between rows and 10 cm between plants. The variety has an Upper Half Mean length of 30.8 mm, Micronaire of 4.1 and tenacity of 30.8 g/tex in HVI mode in South Zone (Irrigated), Upper Half Mean length of 29.4 mm, Micronaire of 3.9 and tenacity of 30.4 g/tex in in South Zone (Rainfed) and Upper Half Mean length of 30.1 mm, Micronaire of 3.7 and tenacity of 30.2 g/tex in HVI mode in Central Zone (Irrigated) indicating its superiority in fibre quality.

However, the potential fibre length is 33.7 mm and potential tenacity is 35.5 g/tex under good management. The fibre is suitable for spinning upto 50s count yarn. The variety is resistant to Bacterial Leaf Blight, *Alternaria* Leaf Spot, *Myrothecium* Leaf Spot, Rust, moderately resistant to Grey Mildew, and immune to root rot under field conditions combined with tolerance/resistance to Jassids, White Fly, Thrips, Aphids, and Mirid Bug under field conditions.

Target leaf spot of cotton - An emerging disease in cotton

Shailesh P. Gawande, S.K.Sain and Chandrashekar N
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Survey and Collection of diseased samples from different geographic locations of India were done. All fifteen *Corynespora cassiicola* isolates found were morphologically different and colonies were whitish grey to grey shades having a woolly, cottony, and smooth texture on PDA.

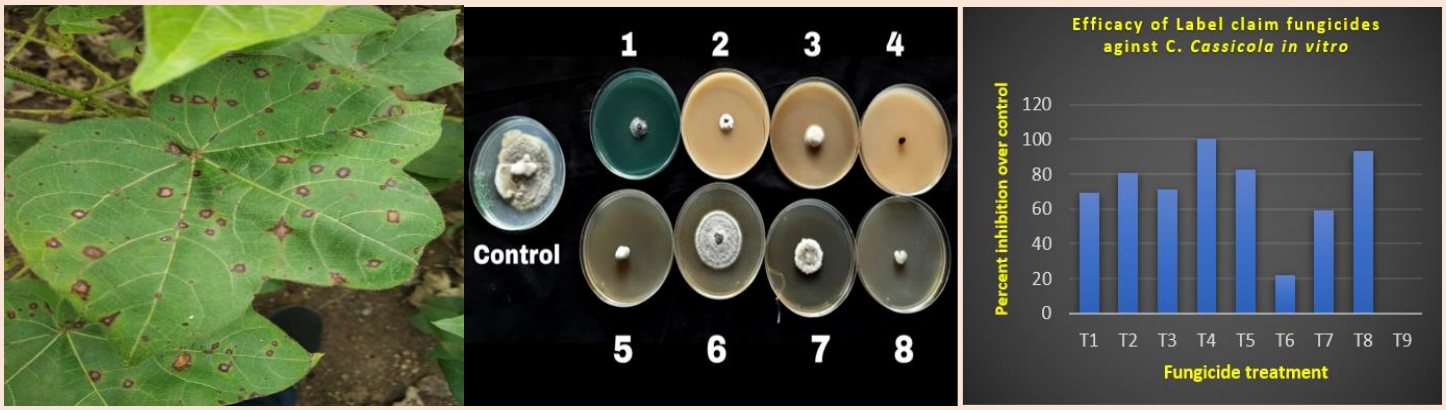


Fig.1- Symptoms of target leaf spot and efficacy of label claim fungicides *in Vitro*

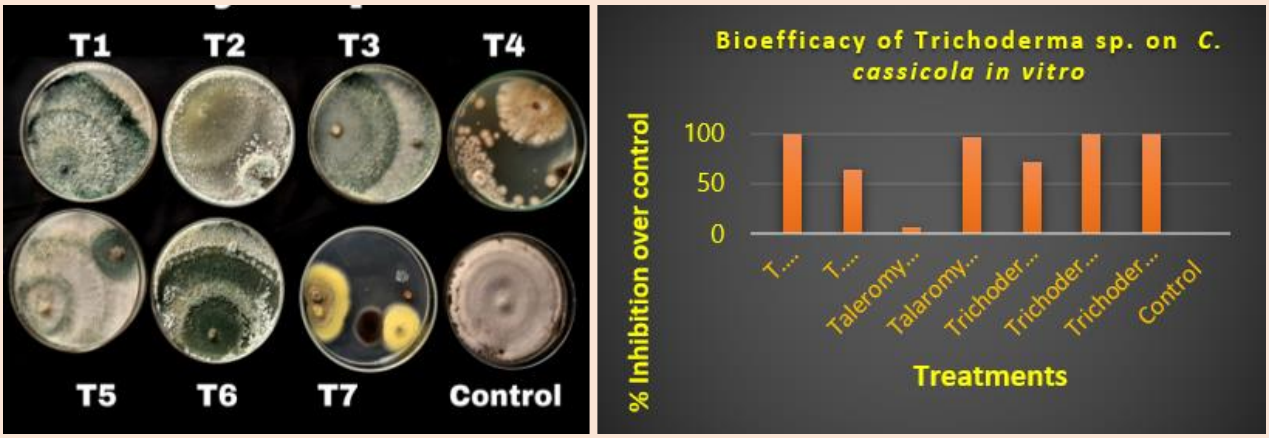


Fig.2- Bio efficacy of fungal bioagents against Corynespora leaf spot in Vitro

The incidence of target spot observed in all 33 locations surveyed and disease severity (PDI) recorded in the range of 5.56 to 65.34. In vitro efficacy of label claim fungicides has been carried out and Carbendazim 50%WP @ 0.25% followed by Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC @ 0.06% showed 100 and 93.56 per cent inhibition over control respectively (Fig.1). In case of bio efficacy of bioagents, *Trichoderma asperllum* and *T. longibrachiatum* were found effective against *C. cassicola* in vitro (Fig. 2). Molecular characterization and identification of isolates collected from different locations were done by using translation elongation factor-1 and Beta tubuline housekeeping genes primers. In both resistant and susceptible genotypes Chitinase genes significantly induced in response to *C. Cassiicola* when compared to basal expression, 6h and 24h of post inoculation.

CICR happenings

Training cum inputs distribution under Tribal Sub- Plan (TSP) at Vanamati, Nagpur

Input distribution cum training conducted at Vanamati under TSP programme on 6th May, 2022. The program was coordinated by Dr. Chinna Babu Naik (Senior Scientist & Nodal officer of TSP), ICAR-CICR, Nagpur. He briefed the farmers about the effective management of Pink bollworm in Cotton. Pink bollworm is one of the major and dreaded pests which are causing severe damage to cotton plants. Most of the farmers are using the pesticides but they are unable to control the pest and are not getting assured yields. In this programme organized by ICAR-CICR, Nagpur, agricultural inputs kit (cotton-picking bag, Trichoderma, pheromone trap and 2 lures) were distributed to 20 tribal farmers belong to Chandrapur and Gadchiroli district of Maharashtra under TSP scheme.

Training cum inputs distribution under TSP to Tribal Farmers at Vanamati

ICAR-CICR holds Cotton Stakeholders workshop on measures to enhance cotton productivity on 7th May 2022

To commemorate Azadi Ki Amrit Mahotsav series, city based ICAR-Central Institute for Cotton Research (CICR), organized a "Stakeholders Interface workshop- Pre-*Kharif* consultation on technologies and best practices for enhancing cotton productivity" on 7th May, 2022 at VANAMATI, Nagpur in association with Dr. PDKV, Akola, Department of Agriculture, Nagpur Division, at VANAMATI, Nagpur. Shri. Sunil Chhatrapal Kedar, Honourable Minister of Animal Husbandry, Dairy Development, Sports & Youth Welfare, (Cabinet Minister Govt. of Maharashtra) graced the event as Chief Guest. Dr. C. D. Mayee, Ex-Chairman (ASRB) & Ex-Director (ICAR-CICR), Dr. V.M Bhale, Honourable Vice Chancellor, Dr PDKV, Akola, Maharashtra and Dr. A. L. Waghmare, Director, DCD, GoI, and Shri Ravindra Bhosle, JDA, Nagpur Division were the other dignitaries present.

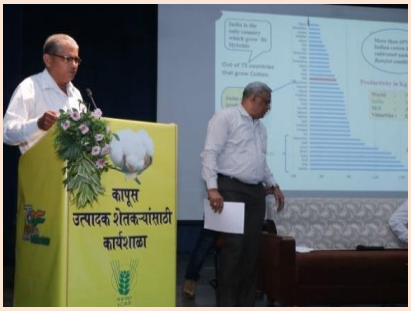
Shri. Kedar, honourable Minister in his inaugural address reiterated Mahatma Gandhiji's principle that, strength of a nation lies in rural areas and emphasized the need of good extension so as to take research benefits to villages. He advocated use of PROM fertilizer and neem based formulations for natural cotton farming. Dr. C. D. Mayee in his address opined the necessity to make *HtBt* cotton legal and shared about the Bandhan project and its contribution in controlling pink boll worm thereby enhancing the cotton productivity. Dr. Bhale, Honourable Vice Chancellor spoke on the need to use plant shredders on hiring basis for crop residue management, use of pheromone traps. Dr. Y. G. Prasad, Director, ICAR-CICR briefed on the production and protection strategies to enhance the cotton productivity in Maharashtra. The scalable technologies ICAR-CICR has improvised include High Density Planting System for rainfed marginal soils to enhance cotton yield and climate resilience, canopy and nutrient management for rationalizing fertilizer, legume-based intercropping for improving soil health, IPM/IRM strategy for pest and disease management and Poly-mulch with drip technology wherever irrigation facility is there. He also mentioned in brief about the superior high yielding cotton varieties released from ICAR-CICR during last two years which includes 8 *Bt* varieties and, several non Bt/desi varieties for organic niche markets. Five progressive cotton farmers were felicitated by Sh. Sunil Kedar who also shared their beneficial experiences on adoption of production and protection management techniques. There was also a talk on Smart cotton prakalp delivered by Sh. Jayesh Mahajan, Project Manager in which he mentioned about the cotton value chain development, e-market plan and fibre to fabric.

More than 350 farmers from villages of Wardha, Amaravati, Akola, Umred, Chandrapur, Gadchirolli participated and each were provided with inputs such as pheromone traps with lure, Trichoderma culture and printed leaflets on safe pesticide application as well as pink bollworm and boll rot management in cotton. Farmers were also showcased with latest cotton technologies developed at ICAR-CICR through an exhibition.

Thereafter, a detailed discussion was held to formulate cotton action plan for the coming kharif which was attended by officials including VC, PDKV, Director and Heads of Divisions of ICAR-CICR, Director, DCD and Head, GTC.

A technical session was also conducted for farmers which included interactive lectures on Improved Cotton Varieties by Dr. V. N. Waghmare, Head, Crop Improvement, CICR, Nagpur and Dr. Nilkanth R Potduke, Dr. PDKV, Akola; Weed Management by Dr. A. R. Raju, Principal Scientist, Agronomy, High Density Planting System by Dr. Ramakrushna GI, Senior scientist, Agronomy, Pest and Disease management by Dr. Vishlesh Nagrare, Principal scientist, Agrl. Entomology and Post-harvest management by Dr. S. K. Shukla, Head, GTC, Nagpur. The meeting concluded with the vote of thanks proposed by Dr. Sunil Rokde, Head I/c, KVK, ICAR-CICR, Nagpur.

Technical Session

Technical Session

KVK-ICAR-CICR, Nagpur holds web telecast of Garib Kalyan Sammelan and Honourable Prime Minister interaction with rural beneficiaries

KVK-ICAR-CICR, Panjri farm, Nagpur took all efforts to showcase the country's largest ever event, Garib Kalyan Sammelan- Shath Pratishath Shasakthikaran commemorating Azadi ka Amrit Mahotsavon 31st May 2022. The city-based Institute was one of the webcasting centres among 1500 locations identified across India. Farmers from nearby villages such as Umred, Bhiwapur, Kalmeshwar, Parseoni, Kuhi were invited to its campus in Wardha Road to watch the live programme. The Honourable Prime Minister interacted live from Shimla with rural beneficiaries spanning all districts, about the wide-ranging schemes/programmes covering Pradhan Mantri AwaasYojana (both Grameen & Urban), Pradhan Mantri Kisan Samman Nidhi, Pradhan Mantri Ujjwala Yojana, Poshan Abhiyan, Pradhan Mantri Matru Vandana Yojana, Swachh Bharat Mission (both Grameen & Urban), Jal Jeevan Mission & AMRUT, Pradhan Mantri Svanidhi Scheme, One Nation One Ration Card, Pradhan Mantri Garib Kalyan Anna Yojana, Ayushman Bharat PM Jan Arogya Yojana, Ayushman Bharat Health and Wellness Centre, Pradhan Mantri Mudra Yojana. The interaction not only highlighted people-centric approach of these schemes leading to ease the lives of citizens but also enlightened the Government on the aspirations of the people in the nation's march to progress.

The programme at KVK-ICAR-CICR, Nagpur was presided over by Dr. N. Vijayalakshmi, IAS, Joint Secretary (Agriculture), Govt. Of India, New Delhi in the presence of Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur. Dr. B. S. Dwivedi, Director, ICAR-NBSS&LUP, Nagpur and Dr. S.K. Shukla, I/c., Ginning Training Center, Nagpur graced the event. Sh. Keshav Sontake, Sarpanch, Khapri, Nagpur and Smt. Meena Shende, Sarpanch, Hudkeshwar, Nagpur and many senior officials of the Institute were also prominently present. A total of twelve hundred participants benefitted from the event. Plant Protection kits containing biofertilizers, biopesticides, micronutrient mix and nano

micronutrient mix and nano urea required for 1 acre land was distributed to 500 farmers registered under Scheduled Caste Special Programme. Dr. Subhash Patil, SMS, KVK-ICAR-CICR Nagpur served as the nodal officer of the event.

Distribution of plant protection kits to one of the beneficiary farmer, Smt. Babita Moon, Wardha at the hands of Chief Guest Dr. N. Vijayalakshmi. Dr. Y. G. Prasad, Direcotr, ICAR-CICR, Nagpur, Dr. B. S. Dwivedi, Director, ICAR-NBSS&LUP, Nagpur, Dr. S.K. Shukla, I/c., Ginning Training Center, Nagpur and other Senior officials of ICAR-CICR, Nagpur are also seen

Address by the Chief Guest, Dr. N. Vijayalakshmi, IAS, Joint Secretary (Agriculture), Govt. Of India, New Delhi on the occasion of Garib Kalyan Sammelan event at KVK-ICAR-CICR, Nagpur



Garib Kalyan Sammelan event at KVK-ICAR-CICR, Nagpur

Anti-Terrorism Day:

CICR, Regional Station observed Anti-terrorism day on 21 May 2022 by taking a pledge on promoting peace and harmony coordinated by the Project Coordinator and Head. All the staff members of the station participated in the oath-taking which was dictated by the Drawing and Disbursing Officer.

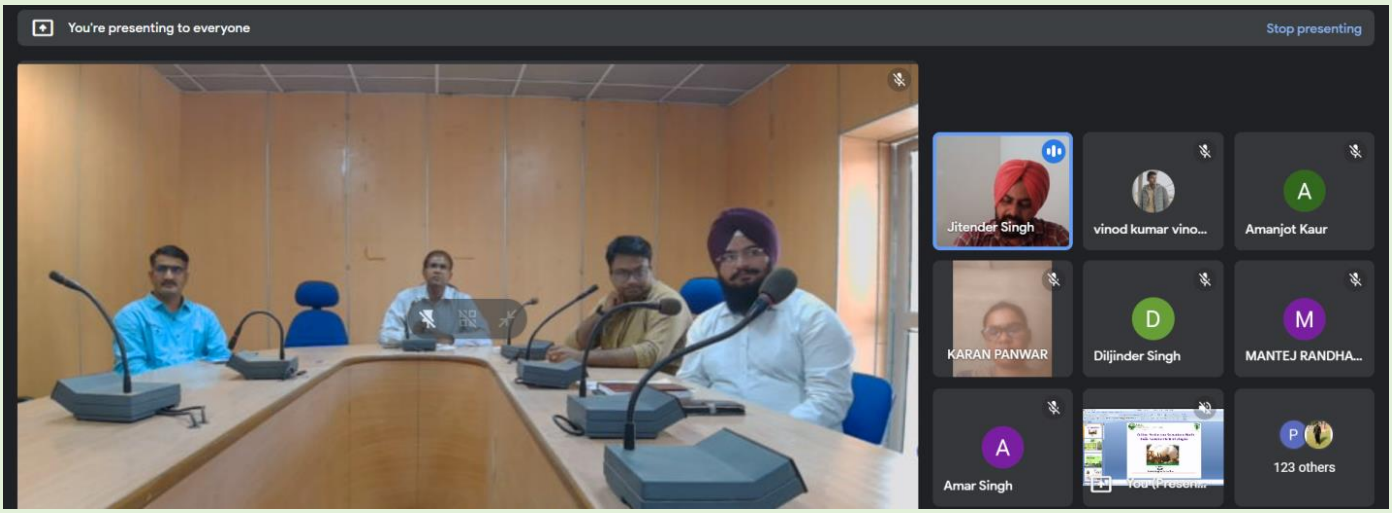
Students visit ICAR-CICR, RS, Coimbatore

One hundred and twelve B.Sc. Agriculture students from Thangapazham Agricultural College, Vasudevanallur, Tenkasi District visited ICAR-CICR, Regional Station on 05 May, 2022. Students interacted with Dr. R. Raja, Principal Scientist (Agronomy) and Dr. A. Sampath Kumar Senior Scientist (Plant Pathology). They highlighted the ongoing research activities related to Crop production and Crop Protection aspects carried out in the Station. Field and laboratory visits were also organized during the visit. Two batches of two hundred-second year B.Sc. Agriculture students from Annamalai University, Annamalai Nagar visited ICAR-CICR, Regional Station on 05 May, 2022. Dr. K. Rathinavel Principal Scientist (Seed Technology), Dr. D Kanjana, Senior Scientist (Soil Science), Dr. K Rameash, Principal Scientist (Agricultural Entomology), and Dr. P Valarmathi, Scientist (Plant Pathology) interacted with students and gave a brief note on the achievements of the Station. The students also visited the CIRCOT regional station, fields and laboratory of the station.

One hundred and eighteen BSc Agri students from Adhiparasakthi Agricultural College visited ICAR-CICR, Regional Station on May 28, 2022. Dr. A. Manivannan (Genetics and Plant Breeding), Dr. Shankar Ganesh (Agricultural Entomology) interacted with students and briefly explained the inception of the institute and significant achievements in various research areas being carried out at the Station.

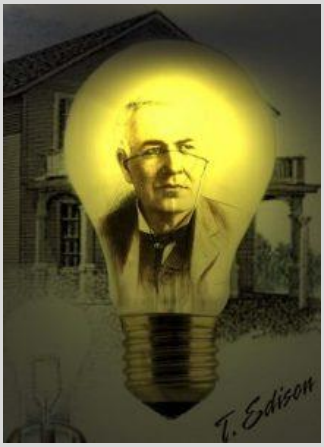
Training program for enhancing cotton production in North zone organised by BCI

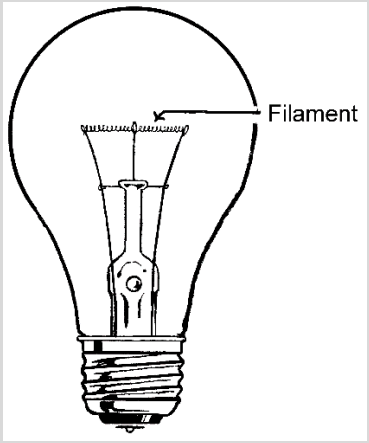
Dr. S. K. Verma, Principal Scientist (Plant Breeding) and Head (I/C), Dr. Rishi Kumar, Principal Scientist (Entomology), Dr. S. K. Sain, Principal Scientist (Plant Pathology), Dr. Amarpreet Singh, Scientist (Agronomy) and Dr. Debashis Paul, Scientist (Seed Technology) from ICAR-CICR, Regional Station, Sirsa delivered lectures during the training program for enhancing Cotton Production in North zone organised by BCI on May 17, 2022.



Did You Know?

Did you know Thomas Edison invented the first light bulb in the late 1800's, after 100's of attempts he finally cracked it using a **cotton thread as the filament.**





Source:

htpps://www.citrus-rain.com/a few interesting facts about cotton

Contributed by:

P. Valarmathi, Scientist (Plant Pathology), ICAR- CICR, Regional Station, Coimbatore-641 003

Scientists' Corner:

- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur and Dr. M.V. Venugopalan attended the virtual meeting regarding TIH Foundation for IoT and IoE on 2nd May, 2022 organized by Dr. Sachin Paramane, CTO – TIH IoT, IIT Bombay.
- Dr. Rishi Kumar, Principal Scientist (Entomology) conducted PhD thesis viva of Mr. Kawartej Singh Sidhu on May 06, 2022 from PAU, Ludhiana.
- Dr. A. Manikandan, Scientist (Soil Science) delivered a lecture on "Soil Health Mission/Soil Sampling Method/ How to read report and various recommendations "Use of organic/ biological fertilisers for improvement of soil health" on 04th May 2022 in the training programme on "Soil Health and Fertility Management" organized by Vasantrao Naik State Agricultural Extension Management Training Institute (VANAMATI).
- Dr. S. K. Verma, Principal Scientist (Plant Breeding) and Head (I/C) from ICAR-CICR, Regional Station, Sirsa visited CCS-HAU, Hisar, May 07, 2022 to meet Honourable Vice Chancellor regarding the approval of Proceedings of "Interface Meeting on Enhancing Cotton Productivity in North Zone: Way Forward" which was held at ICAR-CICR, Regional Station, Sirsa on 30 March, 2022
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur convened a meeting on 9th May 2022 about sponsoring entries along with data for inclusion in AICRP multi-location trials for 2022-23 season. The meeting was attended by Dr. V. N .Waghmare, Dr. S. M. Palve, Dr. Vinita Gotmare, Dr. D.V. Patil, Dr. M. Sarvanan, Dr.H.B. Santosh, Dr. G. Balasubramani and Dr. K.P. Raghvendra.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur, participated as speaker/ resource person in the training program on Integrated Pest Management for Sustainable Agriculture during 09-13, May 2022 organized by ICAR-NCIPM, New Delhi through virtual mode.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur, participated as Expert Member in the State Level Technical Programme and Work Discussion for the year 2022-23 from 09 to 11 May, 2022 at Seminar Hall, University Auditorium, Rajendranagar organized by Director of Research, PJTSAU, Rajendra Nagar, Hyderabad.
- Dr. S. K. Verma, Principal Scientist (Plant Breeding) and Head (I/C), Dr. Rishi Kumar, Principal Scientist (Entomology) & Principal Investigator (AICRP-Entomology), attended a Meeting to finalize the sowing plan of Tma-12 events during 2022-23 at PAU, Regional Station, Faridkot on May 12, 2022.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur convened a meeting regarding Refuge in Bag (RIB) guidelines on 17th May 2022. All HoDs and Heads of Regional stations attended the meeting.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur organized a training programme regarding promotion of Non-GM Varieties through Organic Cotton production on 18-19th May, 2022 at ICAR-CICR, Nagpur.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur and Dr. M.V. Venugopalan attended the virtual meeting regarding TIH
- Dr. A. Manikandan, Scientist (Soil Science) delivered a lecture on "Soil Health Management in Organic Cotton" in the Training on "Promotion of Non-GM Varieties through Organic Cotton production" at ICAR-CICR, Nagpur during May 18-19th 2022.
- The Farm Advisory Committee (FAC) meeting was held on 19th May 2022 under the chairmanship of Dr Y G Prasad, Director and Chairman, FAC, ICAR-CICR, Nagpur. Dr. V. N. Waghmare, Dr. M.V. Venugopalan, Dr. V. S. Nagrare, Dr. V. Santhy, Dr. S.S .Mahajan, Dr. Ramkrushna participated in the meeting.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur attended the Executive Council Meeting of Indian Society for Cotton Improvement (ISCI) held on 21st May, 2022 under the chairmanship of Dr. A. J. Shaikh, Chairman ISCI in Hybrid mode.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur along with Dr. M.V. Venugopalan attended the meeting of Committee on Stakeholders & Cotton Production and Consumption (COCPC) on 23rd May 2022 organized by Cotton Section. O/o. Tx.C (Textile Commissioner Mumbai) through video Conference.
- Dr. Y. G. Prasad, Director, ICAR-CICR, Nagpur participated as chairman for the Crop Protection Session of Castor on 25th May, 2022 during Annual Group Meeting on Castor, Sunflower, Sesame & Niger – 2022 organized by ICAR-Indian Institute of Oilseeds Research, Rajendranagar, Hyderabad under the chairmanship of Dr T. Mohapatra, Secretary DARE & DG, ICAR, Dr TR Sharma, DDG (Crop Science), Dr Sanjeev Gupta, ADG (OP) and Directors of other Oilseed institutes.
- Dr. Y. G. Prasad, Director, ICAR-CICR attended the interactive meeting with Honourable Union Minister of Textiles, GoI Shri. Piyush Goyal and Honourable Union minister of State of Textiles Smt. Darshanat V. Jardosh (newly

constituted Textile Advisory Group) on 29th May, 2022 at IMC chamber of Commerce and Industry, IMC Building, Mumbai.

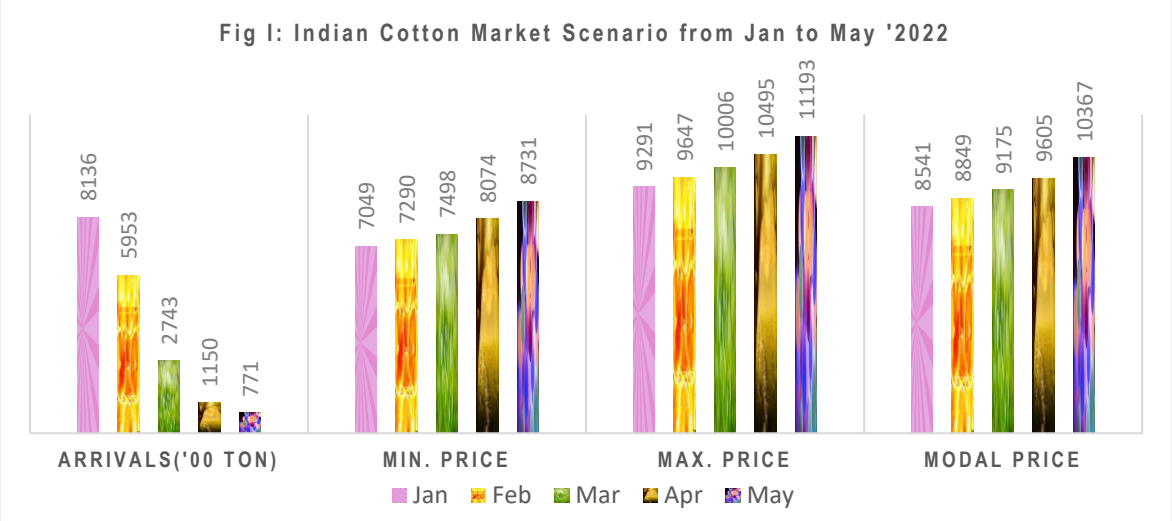
Publications

- Verma, P., Hiremani, N. S., Gawande, S. P., Sain, S. K., Nagrale, D. T., Narkhedkar, N. G., & Prasad, Y. G. (2022). Modulation of plant growth and antioxidative defense system through endophyte biopriming in cotton (Gossypium spp.) and non-host crops. Heliyon, e09487. DOI: 10.1016/j.heliyon.2022.e09487
- Naik,VCB, Tejswini D. Saonerkar, Chandrashekar N, Pratik P. Pusadkar , Sandhya Kranthi , Pooja Verma , Sujit H. Kumbhare , Nandini Gokte Narkhedkar and Y. G Prasad (2022) Biochemical characterization of alkaline phosphatase in midgut of Cry2Ab dosed, pink bollworm, Pectinophora gossypiella (Saunders). Journal of Environmental Biology. 43(4) (2022) (NASS Rating: 7.5).

Cotton Trade and Statistics (May 2022)

Isabella Agarwal & A. R. Reddy
Principal Scientists, Agricultural Economics, ICAR-CICR

In May 2022, world average cotton prices stood higher by around 10 per cent month on month (MoM) and around 90 per cent year on year (YoY), with Indian cotton being more expensive than international cotton. The domestic cotton production was lower 16 per cent YoY in the current Indian cotton season up to May 2022, leading to a supply shortage amid a sustained global demand, led by the US ban on Chinese Xinjiang cotton. The direction of the A Index was erratic over the past month, but the current values are nearly even with those a month ago (164 cents/lb).



As the arrivals came down over the months as can be seen in Fig I, the modal price increased to the tune of 21 per cent within a span of few months during May when compared to Jan' 2022. Large cotton traders and multinational companies (MNCs) purchased and stockpiled huge quantities of cotton. Some quantity has also been exported. As prices skyrocketed, the smaller mills were unable to purchase cotton due to working capital shortages.

Cotton trade projections by country indicate that supply limitations in the United States and India are likely to reduce 2022/23 exports there, while others (such as Brazil and Australia) are likely to see higher shipments as cotton supplies are more plentiful in these countries. While U.S. cotton exports are expected to decline slightly (250,000 bales), India's exports are projected to decrease 700,000 bales to 4 million bales, the lowest in 3 years. In contrast, Brazil's exports are forecast at 10 million bales (+2.1 million) while Australia's cotton exports are projected to reach 5.7 million bales (+1.3 million) in 2022-23.

Cotton in Media

(A one page collage will be designed in the Cotton Innovate template)

सकाळ अॅग्रोवन

कापूस लागवड-व्यवस्थापन तंत्रज्ञानावर आज मंथन

राज्यभरातील ३५० शेतकरी, सेवा क्षेत्रातील भागधारकांचा समावेश

अॅग्रोवन वृत्तसेवा

नागपूर : कापूस उत्पादकता वाढीसाठी पूरक तंत्रज्ञान, व्यवस्थापनाच्या तांत्रिक बाबी अशा सर्व मुद्द्यांवर चर्चा करण्यासाठी केंद्रीय कापूस संशोधन संस्था, कृषी विभाग आणि डॉ. पंजाबराव देशमुख कृषी विद्यापीठ, केंद्रीय कापूस तंत्रज्ञान संस्था (सिरकॉट) यांच्या संयुक्त सहकार्याने शनिवारी (ता. ७) एक दिवशीय खरीपपूर्व मेळाव्याचे आयोजन करण्यात आले आहे. वनामती (वसंतराव नाईक राज्य कृषी विस्तार, व्यवस्थापन प्रशिक्षण संस्था) सभागृहात सकाळी साडेदहा वाजता हा मेळावा होईल.

मेळाव्याला प्रमुख पाहुणे म्हणून पशुसंवर्धन व दुग्धविकासमंत्री सुनील केदार यांची उपस्थिती राहणार आहे. मेळाव्यात राज्याच्या कापूस उत्पादक जिल्ह्यातील सुमारे ३५० शेतकरी, कापूस सेवा क्षेत्रातील भागधारक, तज्ज्ञ सहभागी होणार आहेत. उद्घाटन सोहळ्यानंतर तांत्रिक सत्रात कापूस अॅक्शन प्लॅन तयार केला जाणार आहे. शेतकरी, तज्ज्ञांमध्ये संवादात्मक सत्र देखील राहील. येत्या खरीप हंगामात कापसाची उत्पादकता, उत्पन्न वाढ, कापसाचा दर्जा राखणे त्याकरिता पूरक तंत्रज्ञान, त्यासंदर्भात आवश्यक नियोजन आणि अंमलबजावणी अशा सर्व मुद्द्यांवर या चर्चासत्रात मंथन होणार आहे, अशी माहिती केंद्रीय कापूस संशोधन संस्थेचे संचालक डॉ. वाय. जी. प्रसाद यांनी दिली.

कापसावर गुलाबी बोंड अळीचा प्रादुर्भाव होतो. त्याच्या नियंत्रणासाठी कमी कालावधीत परिपक्व होणाऱ्या वाणांच्या लागवडीला प्रोत्साहन देण्याचे प्रस्तावित आहे. त्यासोबतच कापसाचा दर्जा आणि उत्पादकता यातही सुधारणांची गरज आहे. या दोन्ही बाबी नजरेसमोर ठेवत या प्रशिक्षणाचे आयोजन करण्यात आले आहे. कापसाच्या दरात गेल्या हंगामात आलेल्या तेजीमुळे यंदा लागवड क्षेत्र सरासरी गाठेल, अशी अपेक्षा आहे.

– डॉ. वाय. जी. प्रसाद, संचालक, केंद्रीय कापूस संशोधन संस्था, नागपूर

9 May, 2022, Sakal Agroone

Lokmat Times

NEWS IN BRIEF

ICAR-CICR holds workshop for increasing cotton productivity

State minister of animal husbandry and dairy development, Sunil Kedar felicitating a progressive cotton farmer during the workshop as ex-director of ICAR-CICR Dr C D Mayee, vice-chancellor of PDKV Dr V M Bhale, director of ICAR-CICR, Nagpur, Dr Y G Prasad, director of DCD, GoI, Dr A L Waghmare and joint director of agriculture, Nagpur division, Ravindra Bhosle look on.

To commemorate 'Azaadi Ke Amrut Mahotsav' series, city based ICAR-Central Institute for Cotton Research (CICR), organized a 'stakeholders interface workshop: pre-kharif consultation on technologies and best practices for enhancing cotton productivity' recently at Vanamati.

The workshop was held in association with PDKV, Akola, Department of Agriculture, Nagpur Division.

State minister of animal husbandry, dairy development and sports and youth welfare Sunil Kedar was the chief guest. Ex-director of ICAR-CICR Dr C D Mayee, vice-chancellor of PDKV, Akola, Dr V M Bhale, director of DCD, Government of India, Dr A L Waghmare and joint director of agriculture, Nagpur division, Ravindra Bhosle were the other dignitaries present.

Kedar in his inaugural address reiterated Mahatma Gandhi's principle that the strength of a nation lies in rural areas. Director, ICAR-CICR, Dr Y G Prasad, briefed on the production and protection strategies to enhance cotton productivity in Maharashtra.

Five progressive cotton farmers were felicitated by Sunil Kedar during the function. The five also shared their beneficial experiences on adoption of production and protection management techniques. There was also a talk on smart cotton prakalp delivered by project manager Jayesh Mahajan in which he mentioned about the cotton value chain development, e-market plan and fibre to fabric.

More than 350 farmers from villages of Wardha, Amaravati, Akola, Umred, Chandrapur, Gadchirolli participated in the workshop. Farmers were also briefed about the latest cotton technologies developed at ICAR-CICR through an exhibition.

A technical session was also conducted for farmers which included interactive lectures delivered by Dr V N Waghmare, CICR, Nagpur, Dr Nilkanth Potduke, PDKV, Akola; Dr A R Raju, Dr Vishlesh Nagrare and Dr S K. Shukla. Dr Sunil Rokde proposed the vote of thanks.

Nagpur First
Page No. 3 May 10, 2022
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ICAR-CICR conducts workshop on organic cotton production

■ Staff Reporter

ICAR-CENTRAL Institute for Cotton Research (ICAR-CICR) conducted a one-day workshop on organic cotton production at Sewagram recently. The workshop was held in collaboration with Gram Seva Mandal, Wardha and Mission Samruddhi, Chennai.

Dr Y G Prasad, Director, ICAR-CICR highlighted the revival in demand for organic cotton and the need for establishing robust supply chain from production to marketing. Non-GM varieties developed and released by ICAR-CICR will fill the gap in meeting the demand for suitable quality by organic growers in central and southern growing zones. Geotagging, traceability and certification will help in boosting organic cotton production.

Dr M V Venugopalan, Principal Scientist, ICAR-CICR, Atul Sharma, Secretary, Gram Seva Mandal, Wardha, Dr Vidya Mankar, Project Director, ATMA, Wardha, Kishore Jagtap, Programme Officer, Mission Samruddhi, Dr Suhas Podar, Principal, Anand Niketan Agricultural College, Warora guided the farmers on organic cotton production initiative. Dr Sunil Mahajan, Principle Scientist (Seed Technology) provided detailed information to the farmers about the properties of non-GM varieties promoting for organic farming developed by ICAR-CICR. Dr Ramakrishna G I, Senior Scientist, provided guidance on soil testing and nutrient management in organic cotton production.

Dr Rachna Pandey provided information on pest management and Dr Chinna Babu Naik explained Trichogramma production technology to the farmers as an important biological method of pest management. Dr Shailesh Gawande, Senior Scientist, presented the alternatives for disease management in organic cotton production developed by ICAR-CICR. The seeds of non-GM varieties were distributed to the farmers. About 90 farmers from Yavatmal and Wardha districts participated in the workshop. Kishor Jagtap proposed a vote of thanks.

The Hitvada, 11 May, 2022

तरुण भारत

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शेतकऱ्यांसाठी मार्गदर्शन शिबिरे घ्या

सुनील केदार यांची सूचना

वनामती येथे विभागीय कार्यशाळा

◆ नागपूर, ७ मे

विदर्भात एकूण क्षेत्राच्या तीस टक्के क्षेत्र कापसाखाली आहे. परंतु कीड व निसर्गाच्या अवकृपेमुळे अपेक्षित उत्पन्न मिळत नाही. या शेतकऱ्यांना विविध योजना व किडीच्या व्यवस्थापनाची माहिती होण्यासाठी कृषी विभागाने ग्रामीण भागात मार्गदर्शन शिबिरे आयोजित करावी, अशी सूचना पशुसंवर्धन, दुग्ध व्यवसाय विकास, क्रीडा व युवक कल्याण मंत्री सुनील केदार यांनी दिली.

मंत्री सुनील केदार यांच्या पुढाकारात केंद्रीय कापूस संशोधन संस्था, कापूस संचालनालय, विभागीय कृषी सहसंचालक कार्यालय व पंजाबराव कृषी विद्यापीठाच्या सौजन्याने कापूस उत्पादक शेतकऱ्यांसाठी विभागीय कार्यशाळेचे आयोजन शहरातील वसंतराव नाईक स्मृती सभागृह (वनामती) येथे करण्यात आले होते, यावेळी ते बोलत होते.

केंद्रीय कापूस संशोधन संस्थेचे संचालक डॉ. वाय. जी. प्रसाद, ज्येष्ठ कृषितज्ज्ञ सी. डी. माही, डॉ. पंजाबराव

कृषी विद्यापीठाचे कुलगुरू व्ही. एम. भाले, कापूस संचालनालयाचे संचालक ए. एल. वाघमारे, विलास खर्चे, एम. जी. वेणुगोपाल, कृषी सहसंचालक रवींद्र भोसले आदी यावेळी प्रामुख्याने उपस्थित होते.

ग्रामीण भारताची अर्थव्यवस्था उंचावली पाहिजे तरच खऱ्या अर्थाने महात्मा गांधीच्या 'गाव बनाव देश बनाव' या संकल्पनेस न्याय देऊ शकू, असे केदार यांनी सांगितले. या विचारधारेचे चिंतन व मनन करणे काळाची गरज आहे. शेतकरीच देशाचे चित्र बदलवू शकतात. त्यासाठी शेतीसोबतच पूरक व्यवसाय करावा. देशातील ७० लाख शेतकरी कापूस उत्पादन घेतात. परंतु त्यांना आधुनिक तंत्रज्ञान व किडींच्या व्यवस्थापनाबाबत माहिती नसल्याने दरडोई उत्पन्नात घट होत असते. त्यासाठी कृषी विभागाने ग्रामीण भागात प्रसार व प्रचार करून शेतकऱ्यांना याबाबत माहिती द्यावी, असे ते म्हणाले.

प्रारंभी मान्यवरांच्या हस्ते दीप प्रज्वलन करून कार्यशाळेचा प्रारंभ करण्यात आला. कृषी विभागाच्या मार्गदर्शनपर घडीपत्रिकेचे प्रकाशन मान्यवरांच्या हस्ते करण्यात आले. तसेच प्रगतिशील शेतकऱ्यांचा शाल व श्रीफळ देऊन सत्कार करण्यात आला. कार्यक्रमाच्या अनुषंगाने कृषी विषयक प्रदर्शनाचे आयोजनही करण्यात आले. ही कार्यशाळा दोन सत्रांत आयोजित करण्यात आली होती. या दोन्ही सत्रांत कृषी क्षेत्रातील तज्ज्ञांनी मार्गदर्शन केले. या कार्यक्रमाचे संचालन वरिष्ठ वैज्ञानिक कीटकशास्त्र डॉ. बाबासाहेब फंड यांनी, तर उपस्थितांचे आभार डॉ. सुनील रोकडे यांनी मानले. या कार्यक्रमास विदर्भातील सर्व जिल्ह्यातील कापूस उत्पादक शेतकरी तसेच अधिकारी व कर्मचारी मोठ्या संख्येने उपस्थित होते.

◀(तभा वृत्तसेवा)

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तंत्रज्ञानाच्या बळावरच शेतीतून आर्थिक सक्षमता : सुनील केदार

सुधारित तंत्रज्ञानातून कापूस उत्पादकता वाढविण्यावर कार्यशाळा

अॅग्रोवन वृत्तसेवा

नागपूर : केंद्रीय कापूस संशोधन संस्थेने वातावरणातील बदल आणि कोरडवाहू शेतीला पूरक अशा तंत्रज्ञानाच्या संशोधनावर भर दिला आहे. कोरडवाहू शेती नजरेसमोर ठेवत उत्पादकता वाढीचा प्रयत्न या माध्यमातून केला जात आहे. शेतकऱ्यांनी अशा सुधारित तंत्रज्ञानाच्या वापरावर भर देण्याची गरज असल्याचे मत पशुसंवर्धन व दुग्धविकासमंत्री केदार यांनी व्यक्त केले.

केंद्रीय कापूस संशोधन संस्थेच्या वतीने सुधारित तंत्रज्ञानाचा वापर करून कापूस उत्पादकता वाढविणे या विषयावर आयोजित कार्यशाळेत ते बोलत होते. कृषी विभाग तसेच डॉ. पंजाबराव देशमुख कृषी विद्यापीठ अकोला यांच्या संयुक्त सहकार्याने वसंतराव नाईक राज्य कृषी विस्तार व्यवस्थापन प्रशिक्षण संस्था येथे ही कार्यशाळा आयोजित करण्यात आली होती.

पशुसंवर्धन व दुग्धविकासमंत्री सुनील केदार केंद्रीय कापूस संशोधन संस्थेचे माजी संचालक डॉ. चारुदत्त मायी, कापूस विकास संचालनालयाचे डॉ. ए. एल. वाघमारे, नागपूर विभागीय कृषी सहसंचालक रवींद्र भोसले, 'पंदेकृवि'चे कुलगुरू डॉ. विलास भाले यांची या वेळी उपस्थिती होती.

डॉ. वाय. जी. प्रसाद (संचालक, केंद्रीय कापूस संशोधन संस्था नागपूर) यांनी आपल्या स्वागतपर भाषणात कापूस उत्पादनातील योग्य पद्धती वापरावर भर दिला. संस्थेद्वारे विकसित तंत्रज्ञान शेतकऱ्यांपर्यंत पोहोचले पाहिजे, असे मत त्यांनी व्यक्त केले. तसेच गेल्या दोन वर्षांत सीआयसीआरद्वारे उत्कृष्ट उत्पादन देणारे वाणे ज्यामध्ये ८ बीटी वाण आणि कित्येक नॉन बीटी/देशी वाण सेंद्रिय शेतबाजारासाठी उपलब्ध करून देण्यात आली आहेत.

डॉ. सी. डी. मायी यांनी आपल्या भाषणात 'प्रोजेक्ट बंधन' या गुलाबी बोंड अळीवर नियंत्रण मिळविण्यासाठी पूरक ठरणाऱ्या प्रकल्पाची माहिती दिली. गावपातळीवर तंत्रशुद्ध व्यवस्थापन पद्धतीचा अंगीकार असलेल्या शेतीचे नियोजन केल्यास उत्पादकता वाढेल, असे मत त्यांनी मांडले. शेतकरी एचटीबीटी बियाणे बेकायदेशीररीत्या लावतात. म्हणून एचटीबीटीला कायदेशीर परवानगी देण्यात यावी, असेही ते म्हणाले.

कुलगुरू डॉ. भाले यांनी आपल्या मार्गदर्शनात उत्पन्नवाढीसाठी आधी उत्पादनाचा खर्च कमी झाला पाहिजे त्याकरिता आवश्यक जे जे करता येईल ते ते शेतकऱ्यांनी करावे, असा सल्ला दिला. गुलाबी बोंड अळीशी सामना करायला फेरोमोन ट्रॅपची उपयुक्तता याविषयी त्यांनी माहिती दिली.

Sakad Agroone, 10 May, 2022

कपास की उत्तम फसल के लिए हो रिसर्च

केदार ने मार्गदर्शन शिविर के आयोजन के दिये निर्देश

■ नागपुर, निज संवाददाता. पशु संवर्धन मंत्री सुनील केदार ने कहा कि विदर्भ में कुल रकबा के 30 फीसदी क्षेत्र में कपास की खेती होती है लेकिन अक्सर कीटों के हमले और प्राकृतिक आपदा के चलते अपेक्षित उपज नहीं मिल पाती. किसानों को उत्तम फसल लेने के लिए विविध योजनाओं व कीट व्यवस्थापन के संदर्भ में जानकारी देने के लिए कृषि विभाग की ओर से ग्रामीण भागों में मार्गदर्शन शिविरों का आयोजन किया जाना चाहिए. वे केन्द्रीय कपास संशोधन संस्था, कपास संचालनालय, विभागीय कृषि सहसंचालक कार्यालय व पंजाबराव कृषि विवि के संयुक्त तत्वावधान में आयोजित कपास उत्पादक किसानों के लिए विभागीय कार्यशाला में बोल रहे थे. उन्होंने कहा कि कपास को पानी भरपूर लगता है.

कम खर्च में अधिक उपज लें

■ केदार ने कहा कि जमीन का स्वास्थ्य सुधारने के लिए नैसर्गिक खाद का उपयोग करें. बीज लेते समय सावधानी बरतें और उसका बिल लें अन्यथा धोखाधड़ी का भय रहता है. क्रॉपिंग पैटर्न कैसे तैयार करना है, उसका हिसाब कैसे रखना है, इसकी जानकारी लें.

■ इसके साथ ही खेत में दोबारा फसल लेने से आय बढ़ती है. बोंडइल्ली नियंत्रण के लिए निंबोली अर्क का उपयोग करें. हर 10-15 दिनों में फवारणी करें ताकि कीट का नाश हो और कपास का उत्पादन बढ़े.

इसके लिए ड्रिप इरिगेशन के संदर्भ मंत्रिमंडल में प्रस्ताव रखेंगे व फॉलोअप भी करेंगे. इस अवसर पर पीकेवी के उपकुलपति वी.एम. भाले, डॉ. ए.एल. वाघमारे, सहसंचालक रविंद्र भोसले, विलास खर्चे ने भी मार्गदर्शन किया.

Navbharat, 11 May, 2022

ICAR-CICR conducts cotton stakeholders' workshop on measures to enhance yield

■ Staff Reporter

ICAR-Central Institute for Cotton Research (CICR), in association with State Agriculture Department and Dr Panjabrao Deshmukh Krishi Vidyapeeth (PDKV), organised a stakeholders' interface workshop on 'Pre-kharif consultation on technologies and best practices for enhancing cotton productivity' at VANAMATI recently.

Sunil Kedar, Minister of Animal Husbandry, Dairy Development, Sports and Youth Welfare, was the chief guest. Dr C D Mayee, former Chairman Agriculture Scientist Recruitment Board and former Director of CICR; Dr V M Bhale, Vice-Chancellor, PDKV, Akola; Dr A L Waghmare, Director, Directorate of Cotton Development; and Ravindra Bhosle, Joint Director (Agriculture), Nagpur Division, also shared the dais.

Kedar reiterated Mahatma Gandhi's principle that strength of a nation was in rural areas and emphasised the need of good extension to take research benefits to villages. He highlighted approaches such as use of PROM fertilizer and need-based formulations for natural cotton farming. Dr Mayee stressed upon the 'necessity to make Ht Bt cotton legal' and spoke about 'Bandhan' project and its contribution in controlling pink bollworm thereby enhancing cotton productivity. Dr Bhale spoke on the need to use plant shedders on hiring basis for crop residue management, use of pheromone traps.

Dr Y G Prasad, Director, CICR, spoke on production and protection strategies to enhance cotton productivity in Maharashtra. The scalable technologies ICAR-CICR has improvised include High Density Planting System for rainfed marginal soils to enhance cotton yield and climate reselience, canopy and nutrient management for rationalising fertilizer, legume-based intercropping for improving soil health, IPM/IRM strategy for pest and disease management and Poly-mulch with drip technology wherever irrigation facility is there. He also spoke about superior high-yielding cotton varieties released from ICAR-CICR during last two years including 8 Bt varieties and, several non-Bt/desi varieties for organic niche markets.

Kedar felicitated five progressive cotton farmers. They shared their experiences on adoption of production and protection management techniques. Jayesh Mahajan, Project Manager, spoke on 'smart cotton project' and mentioned about cotton value chain development, e-market plan, and fibre-to-fabric initiative. Over 350 farmers from villages of Wardha, Amravati, Akola, Umred, Chandrapur, Gadchirolli participated. CICR also showed them latest cotton technologies developed at ICAR-CICR. A detailed discussion was held to formulate cotton action plan for the coming kharif season. For farmers, a technical session was conducted that included interactive lectures on improved cotton varieties by Dr V N Waghmare, CICR, Nagpur, and Dr Nilkanth R Potduke, PDKV; High Density Planting System by Dr Ramakrushna GI, Weed Management by Dr A R Raju, Pest and Disease Management by Dr Vishlesh Nagrare, Scientist from ICAR-CICR, and Post-harvest Management by Dr S K Shukla, Head, GTC. Dr Sunil Rokde, Head, Krishi Vigyan Kendra, CICR, proposed a vote of thanks.

Sunil Kedar, Minister for Animal Husbandry, felicitating a cotton farmer during stakeholders' interface workshop organised by CICR at VANAMATI. Dr C D Mayee, Dr V M Bhale, Dr A L Waghmare, Dr Y G Prasad, Ravindra Bhosle also are seen.

The Hitvada, 19.05.2022

350 farmers benefit from cotton workshop

TIMES NEWS NETWORK

Nagpur: ICAR-Central Institute for Cotton Research (CICR), organized a 'Stakeholders Interface workshop - Pre-kharif consultation on technologies and best practices for enhancing cotton productivity' at Vanamati on Saturday.

The event was held in association with PDKV, Akola and department of agriculture, Nagpur Division. More than 350 farmers from villages of Nagpur, Wardha, Amravati, Akola, Umred, Chandrapur and Gadchiroli benefitted from the workshop.

State minister for animal husbandry Sunil Kedar was the chief guest. Dr CD Mayee, ex-chairman (ASRB) and ex-director (ICAR-CICR), Dr VM Bhale, vice-chancellor of PDKV, Dr AL Waghmare, director of DCD, and Ravindra Bhosle, JDA, Nagpur division, were the dignitaries who shared the dais.

Kedar emphasized the need of good extension so as to take research benefits to villages.

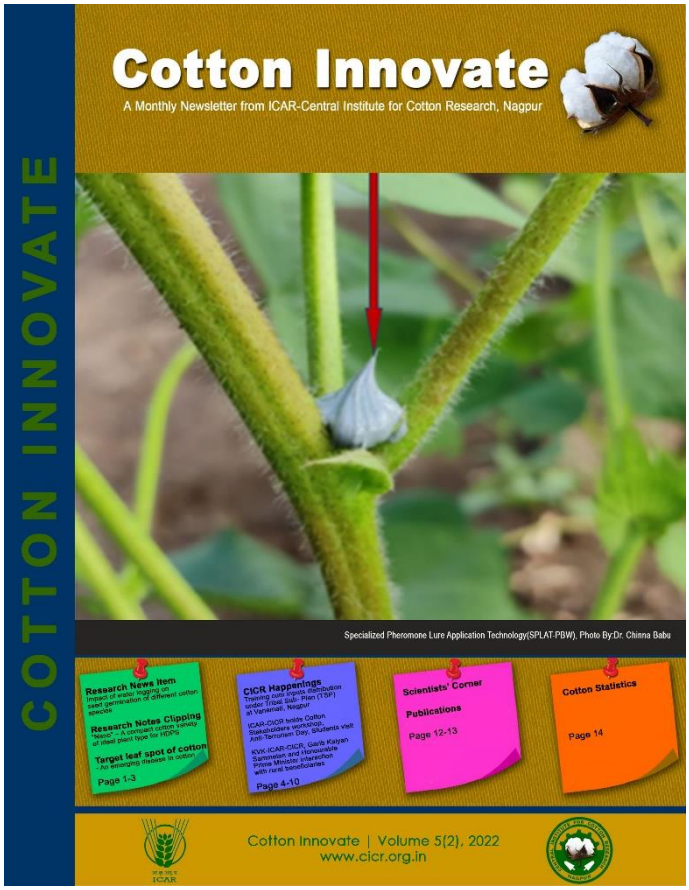
Minister Sunil Kedar was the chief guest of ICAR-CICR workshop

Dr Mayee opined on the necessity to make Ht Bt cotton legal and shared about the Bandhan project and its contribution in controlling pink boll worm thereby enhancing the cotton productivity.

Dr Bhale spoke on the need to use plant shedders on hiring basis for crop residue management, use of pheromone traps. Dr YG Prasad, director of ICAR-CICR, briefed on the production and protection strategies to enhance cotton productivity in Maharashtra.

A technical session was conducted for farmers which included interactive lectures. Dr Sunil Rokde proposed a vote of thanks.

9 May, 2022, Times of India



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