

# COTTON *Innovate*



Weekly Newsletter from Central Institute for Cotton Research, Nagpur

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## CICR Scientists Conducted One-day Training Camp Under ATMA

A team of CICR scientists comprising of Director, Dr. K. R. Kranthi, Dr. Sandhya, Dr. Venugopalan, Dr. Vinita and Dr. Santhy conducted a one-day training camp for more than 100 farmers in the Krushi Jagruthi Saptah on 6th July 2015 at Jamb, Wardha district organized by ATMA. Dr. Vinita in her detailed presentation described the strategies of the HDPS program in Marathi, while Dr. Kranthi gave a brief history on the inception of HDPS. Dr. S. Kranthi, Dr. Venugopalan and Dr. Santhy spoke on protection, production and seed production aspects of HDPS, respectively. The programme was coordinated by Shri Rajesh Chandewar, BTM Samudrapur. Dr Vijay Ghawate, JDA Nagpur and Shri Barhate SDAO Wardha guided the farmers.

**Strategies, inception, protection, production and seed production of cotton under HDPS inculcated**



## Monitoring visit to Seed Production Plot

**Suraj variety in 20 acres of land under HDPS**

A team of CICR scientist, comprising Dr. K.R. Kranthi, Director, CICR, Dr. Venugopal, Dr. Sandhya Kranthi, Dr. Vinita Gotmare and Dr. V. Santhy undertook field monitoring of Seed production plot located at Takalghat taluka of Khapri village, Nagpur on 6th July, 2015. Shri. Milind Sawarkar, the cotton farmer, has taken up Suraj variety in 20 acres of land under High Density Planting System. The monitoring team suggested important measures to be taken up in the farm for better weed management and crop stand. □



## Meetings

The IBSC meeting was held on 03-07-2015 at Director's Committee room at CICR, Nagpur and discussed the agenda of a proposal of TNAU; Coimbatore transgenic Cotton event (CH12) with Cry2AX1 gene for introgression breeding and accepted by the committee. A breeding strategy for introgression of Tg2E-13 (Cry1Ac) and CH12 (Cry2AX1) events from Coker 310 into the elite cotton varieties was discussed and approved for contained green house trial. The committee also recommended for biosafety experiments of pure protein testing on lab animals (rats, rabbits etc.,) and requested to coordinate immediately by the ADG (PP & biosafety) by obtaining the pure proteins from the technology developers. The committee approved the proposal of green house trial with events generated at CICR, Nagpur for final molecular confirmation and "transgene" expression.

## District wise Weekly advisory for Cotton Cultivation

Cotton advisory for 7 <sup>th</sup> to 12 <sup>th</sup> July							ADVISORY
Date	July-15						
	7	8	9	10	11	12	
<b>PUNJAB</b>							As moderate to heavy rain/thundershowers are forecast at many places during the next 3 days, farmers are advised not to provide irrigation during the period. Cotton crop is highly sensitive to stagnating water especially during early growth stages. Hence, drain out excess water from the cotton fields. Due to heavy rain forecast, avoid spray of any chemicals in fields. Bacterial leaf blight can appear in field due to cloudy weather and high temperature. Leaf hopper, whitefly and thrips infestation is expected to increase in some districts where the crop is in peak vegetative stage. Parawilt has been observed in some fields in Bathinda district. In parts of Haryana, whitefly (6-38/3leaves) and thrips (8-27/ 3 leave) were observed. Leaf curl virus was noticed in some fields. Root rot problem after first irrigation was noticed at few locations. Remedial or prophylactic measures may be taken up as and when symptoms are noticed.
Batinda	4	21	23	23	0	5	
Ferozepur	11	21	25	29	0	5	
Muktsar	4	15	25	29	0	3	
Mansa	5	17	17	4	0	0	
<b>HARYANA</b>							
Sirsa	8	0	8	0	0	0	
Hissar	6	8	6	10	0	0	
Fatehabad	15	16	12	8	0	0	
<b>RAJASTHAN</b>							The next 4 days would be cloudy with mild rains. Farmers are advised to go

Hanumangarh	2	1	4	3	2	4	for intercultural operations to conserve soil moisture. Incidence of leafhopper incidence (in traces), Recommended site specific remedial measure for root rot and parawilt may be initiated based on early symptoms. Strictly avoid spaying with pyrethroids or Fipronil. These insecticides will aggravate the whitefly problem. Neem oil sprays are preferred
Sri Ganganagar	2	1	4	3	2	3	
Banswara	1	2	4	5	3	0	
<b>ORISSA</b>							
Koraput	1	0	4	5	15	13	Cotton sowing should be completed at the earliest in view of the active monsoon. Intercropping should be done with red gram or any legume crops after treating with Rhizobium species. Trap crops like castor, marigold and maize should be planted in border rows. Pre emergence spray for weed should be given.
Kalahandi	0	3	3	5	13	11	
Balagir	0	0	3	4	7	7	
<b>GUJARAT</b>							
Amreli	0	0	0	0	0	0	Rainfall predictions for the next 6-7 days are weak. Avoid sowing of cotton in rainfed regions. Young seedlings may be irrigated wherever water sources are available. There are possibilities of thrips and whitefly infestations especially wherever urea applications may have been given. Neem oil based sprays are recommended on early sown crop.
Bhavnagar	0	2	3	3	2	0	
Jamnagar	0	0	0	0	0	0	
Rajkot	2	0	0	0	0	0	
Broach	0	2	3	3	2	0	
Sabarkantha	0	2	3	3	2	0	
Surendranagar	0	0	0	0	0	0	
Ahmedabad	0	0	0	0	0	0	
Vadodara	0	2	3	3	2	0	
Patan	0	0	0	0	0	0	
Mehsana	0	0	0	0	0	0	
<b>MP</b>							
Khargaon	0	0	2	0	0	0	Intermittent rains are predicted this week. Avoid any further sowing in rainfed farms. Crop sown in 2-3rd Week of July in rainfed conditions will experience moisture stress due to the predicted weak monsoon in July-August. Moisture conservation measures are strongly recommended.
Dhar	0	3	8	0	0	0	
Khandwa	0	0	3	0	0	7	
<b>MAHARASHTRA</b>							
Nagpur	0	0	0	2	2	0	Moderate rainfall is expected by end of the week. Monsoon predictions show a dry period after this week. Moisture conservation measures are strongly recommended. The crop is in vegetative to squaring stage under irrigated condition and vegetative stage in rainfed condition. Interculture and weeding should be done immediately followed by application of fertilizers as recommended for top dressing. Do not spray any insecticides.
Wardha	0	0	0	0	1	1	
Chandrapur	0	0	0	0	2	2	
Yavatmal	0	0	0	0	0	1	
Amravati	0	0	0	2	0	1	
Akola	0	0	0	2	0	0	
Buldhana	0	0	0	0	2	0	Monsoon predictions are weak over the next two weeks. Fertilizer should not be applied if sufficient moisture is not available in soil. Hoeing and weeding should be done in cotton fields to avoid competition between the crop and weed. Protective irrigation is to be done wherever it is possible to about 3cm depth of irrigation. Pre monsoon cotton may be affected by reddening and wilting in patches. Plants should be removed and gap filling should be done. Rainfed crop is likely to facing moisture stress. Hence moisture conservation practices should be carried out.
Parbhani	0	0	0	0	0	0	
Nanded	0	0	0	0	0	0	
Beed	0	0	0	0	0	0	
Washim	3	0	0	0	0	2	
Dhule	0	0	0	4	3	0	
Jalgaon	0	0	0	4	0	0	
Jalna	0	0	0	0	0	0	
Aurangabad	0	0	0	3	3	0	
<b>TELANGANA</b>							
Adilabad	0	0	0	0	4	2	Slight rains are predicted by the end of the week in Warangal, Karimnagar and Khammam. The next week from 12-18 July is expected to be dry all
Warangal	0	0	5	6	4	5	

Khammam	0	0	4	6	5	4	across Telangana. In rest of the districts,cloudy conditions with sporadic drizzle is predicted. Sowing should be taken up in irrigated regions. Cotton sown in 2-3rd week of June will need irrigation. Moisture conservation measures may be taken up. Crop sown after this week in rainfed farms is most likely to face moisture stress in the seedling stage. Though thrips and whiteflies may be observed, it is advisable to avoid any chemical sprays. Neem oil based sprays are recommended wherever leaf hoppers and whiteflies are seen on early sown crop.
Karimnagar	0	0	5	8	8	6	
Nalgonda	0	0	0	2	4	2	
<b>AP</b>							
Guntur	0	0	4	6	4	0	Shoot weevil incidence is observed in some pockets. Weevils can be collected during morning hours and destroyed. Sowing of desi cotton varieties (Jayadhar, DDHC-11 and RAHS-14) may be continued till the end of July. If basal dose was not applied, fertilizer application is recommended on Desi cotton crop @ 40:25:25 N-P-K kg/ha sown during first fortnight of June
Prakasam	0	0	0	4	6	2	
<b>KARNATAKA</b>							
Dharwad	0	3	3	7	6	5	
Haveri	0	2	4	5	6	6	Partly cloudy sky with possibility of rain during weekend, followed by a predicted dry week from 12-18th July. Irrigate the crop wherever possible to ensure that the crop does not face any moisture stress during this stage of boll formation
Mysore	0	1	3	3	6	5	
<b>TAMILNADU</b>							
Perambalur	0	0	0	2	2	2	
Salem	0	0	0	3	3	3	
Trichy	0	0	0	3	1	2	
Virdhunagar	0	0	0	0	3	3	



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