

ICAR-Central Institute for Cotton Research, Nagpur

VIII Weekly Advisory for Cotton Cultivation from 12th to 18th August '2019

Date	ACTUAL RAINFALL in mm IMD			PREDICTED RAINFALL in mm IMD							ADVISORY
	AUGUST			AUGUST							
	9	10	11	12	13	14	15	16	17	18	
PUNJAB											
Ferozpur					5	12	11	28	85	20	<p>At Faridkot, the crop is 91 days old at reproductive phase. Mechanical/ manual intercultural operations, irrigation, fertilization were given. Thrips and Jassid incidence was found below ETL. Incidence of cotton leaf curl disease was observed up to II grade at few locations. Farmers are advised to manage whitefly for further spread of virus.</p> <p>Advisory: Due to medium to heavy rainfall, manual/mechanical operations may not be feasible under wet condition. Under such situation, farmers are advised to spray Paraquat @ 750-1000 ml/acre depending upon weed biomass within crop rows. Protective hood must be used for this kind of herbicide application to avoid drift/damage to cotton leaves. Farmers should carry out monitoring of fields early in the morning before 10 a.m. preferably. Sprays should be carried out either early in the day or later in the afternoon.</p>
Faridkot	5	0	0	0	3	4	11	18	37	5	
Mukatsar					0	0	8	8	82	4	
Bhatinda	0	0	0	11	3	0	10	7	11	15	
Sangrur					4	4	10	14	13	11	
Ludhiana		0	10.1	0		10	7	13	11	8	
HARYANA											
Hissar		0	0	0	3	9	0	10	16	38	<p>At Sirsa, the crop is 100 to 105 days old at reproductive stages. The crop is in good condition. Whitefly population ranged between 03-54, thrips 5-63 and jassid 1-8/3leaves. In 4 out of 8 locations, incidence of whitefly and thrips were above ETL. No PBW infestation in farmers' field so far has been reported but trap catches (30adults/week/trap) of PBW in a location in front of gineries in Distt Sirsa have been recorded but no field infestation.</p> <p>Advisory: The incidence of sucking pests is building up. Farmers are advised to install low cost yellow sticky trap @4/acre to detect the early infestations of whitefly. If the incidence of sucking pests is observed above ETL (whitefly 6 adults/leaf, jassid 2 nymphs/leaf and thrips 10-20/leaf) and mixed infestation of whitefly and thrips is observed. Apply Diafenthiuron @200g/acre. Flonicamid @80g/acre or Dinotefuran 60g/acre should be sprayed in case the mixed infestations of whitefly and jassid is noticed. Farmers are advised to initiate application of Potassium nitrate (N: P: K 13:0:45)@2.0kg/acre in 200 liter water to stop fruit shedding in the cotton fields.</p>
Jind					0	3	7	10	13	26	
Sirsa					0	11	8	3	10	26	
Rohtak		0	0	0	6	7	0	4	27	36	
RAJASTHAN											
Ajmer		0	8.1	2.9	7	0	83	61	75	146	<p>At Banswara, the crop is 41 days old at vegetative stage. Fields are full of weeds due to continuous rains. The population of jassid was below ETL (0-3/3leaves). Whitefly and Bollworm infestation not recorded. No incidence of diseases. Field condition is good in general.</p>
Jodhpur		2.8	11.2	0	0	5	21	45	11	22	
Nagaur					6	5	31	51	77	144	
Pali		35	13	0	9	0	58	12	29	44	

Sri Ganganagar		0.2	0	0	0	7	6	13	66	13	Advisory : Farmers are advised to drain the excess water from fields. For weed management, spray Quizalofop ethyl 5% EC @ 2ml/liter of water (1.0 liter/ha in 500 liter water). If, plants show sudden drooping of leaves which ultimately get wilted, the affected plants can be saved by spraying Cobalt chloride @ 10mg/liter of water (10 ppm) immediately after the appearance of these symptoms. Regularly monitor the crop and spray as per suggestion of University Scientists/Agriculture Officers against sucking pests when infestation seen above ETL.
ORRISA											
Koraput		16.6	2	0	47	4	0	22	38	45	The crop is 55 to 65 days old at square formation and flowering stage. The weather was cloudy and rainy. Hoeing, weeding and 2 nd top dressing with fertilizers going on in all the districts. Regular monitoring for pest and disease incidence and plant protection measures and drainage of excess rain is being given importance. First phase weeding has been completed. Second flush of perennial weeds like <i>Cyperus sp.</i> , <i>Cynodon dactylon</i> and <i>Commelina benghalensis</i> are coming up. Aphids and jassid population reduced due to heavy rainfall in the affected areas. Incidence of wilt and root rot has been reported from Kalahandi and Nuapara districts due to continuous rain and cloudy weather. Advisory : Farmers are advised to follow the following points: In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5 % EC @ 20 ml/ 10 litre of water (for grassy weeds) and Pyriithiobac sodium 10% EC @ 25 ml/10 litre of water (for broad leaf weeds). Regular monitoring of the crop needed for incidence of pest and diseases. If the population of sucking pests like aphids, jassids and whitefly crosses ETL, spray any one of the following insecticides - Neem based pesticide @ 50 ml/10 litre of water/ Diafenthuron 50 WP @ 12 g/10 litre of water/ Flonicamid 50 WG @ 4 g/10 litre of water / Thiamethoxam 25 WG @ 5 g/10 litre of water. To control root rot, soil drenching of <i>Trichoderma viridae</i> @ 10 kg/ha should be done mixed with 200 kg moist FYM. Wilt can be controlled by drenching Carbendazim 50%WP @ 20 g/10 litre at root zone. Spray NAA (Planofix) @ 7.0 ml/15 litre of water at 60 DAS to prevent square and flower drop. Adequate drainage channels to avoid water logging should be provided.
Kalahandi		0	0	0	91	14	11	27	37	36	
Balangir		5.6	0	0	75	21	7	0	8	20	
GUJARAT											
Amreli			142.4	42	7	0	14	8	8	6	At Surat, the crop is at vegetative stage. Urea application and weeding has been taken up. No incidence of pests and diseases.
Bhavnagar		13.6	104.8	5.4	6	0	18	12	4	6	
Jamnagar	0	0			6	0	7	4	12	6	At Junagadh, the crop is 57 days old at vegetative and square development stage. <i>Kharif</i> weeds germinating due to continuous rains. Weeding and top dressing of nitrogen have been taken up. Thrips population is on the increase. Minor attack of Mealybug, Aphids and spotted bollworm in isolated plant noticed. Wet weather has resulted in bacterial blight and wilt observed in fields.
Rajkot		0	197.2	148	5	0	14	4	6	6	
Broach					8	3	28	17	10	7	Advisory: Due to heavy rains, some parts of Saurashtra region is water logged. Drain excess water from the fields. Farmers are recommended to apply Ammonium sulphate to soil, 19-19-19
Sabarkantha					8	0	40	77	15	5	
Surendranagar		45	205.8	43	7	0	29	20	4	6	
Ahmedabad		19.8	108.7	15	10	0	29	21	4	8	
Baroda		73.6	87.6	11.8	10	0	37	27	6	13	
Patan					0	0	22	16	3	0	
Mehesana					8	0	22	21	3	5	

											water soluble fertilizer 1% and 10 ppm cobalt chloride immediately after wilt is observed. If thrips incidence goes above ETL, spray Fipronil 5 EC 20ml in 10 lit of water. To manage foliar disease, spray Copper oxychloride 30g + Streptomycin sulphate 1g in 10 liter water.
MP											
Khargaon		108	8	5.2	6	0	0	0	0	0	At Khandwa, the crop is 46 to 96 days old at vegetative to flowering and squaring to boll formation stage. Intercultural practices, application of insecticides & fertilizer application were taken up. Jassids and whiteflies incidence noticed. Pink bollworm incidence was also noticed in boll formation stage. No incidence of diseases. Advisory: Weeding and intercultural operations should be done during the week. Fertilizer to be applied @ 150:75:40 Kg/ha. With 25% N at 30 DAS; 25% N + 50% P+K at 60 DAS and 25% N at 90 DAS. In the areas where Jassid & White fly crosses ETL, apply Imidachloprid 3ml or Thiamethoxam 2 g or Acetamiprid 2 per 10 litres of water. Install pheromone traps @ 5/ha for monitoring of Pink bollworm in areas where boll formation has started
Dhar		157.7	24.2	4.5	0	0	55	39	3	5	
Khandwa		0	0	0	12	0	56	30	3	6	
MAHARASHTRA											
Dhule	0	0	0	0	10	0	18	5	7	8	At Nanded, the crop is 28 to 64 days old at vegetative to flowering stage. Weeding, intercultural operation and plant protection have been taken up. Aphid infestation above ETL was observed in some locations. Pink bollworm incidence was also observed in few locatons. No incidence of diseases. At Akola, the crop is 45 days old at vegetative and square formation stage. Top dressing, thinning was taken up in late sown cotton. Weed infestation high due to rains. Medium infestation of sucking pests recorded. No incidence of diseases. In general, the crop growth is satisfactory. Advisory: Basal fertilizer dose if not applied at the time of sowing, should be applied @ 48:60:60 NPK kg/ha by drilling or ring method. Top dressing of Nitrogen, 36 kg/ha at 30 DAS in rainfed and 60 kg/ha in irrigated condition at 60 DAS should be done by drilling or ring method at per soil test values. Foliar application of Urea 2% at 30 DAS and DAP 2% at 60 DAS. Buprofazin 25%SC @ 20 ml or Acetamiprid 25 SP @ 2 g or Flonicamid 50% WG @ 4 g per 10 lit water should be sprayed for management of aphids/jassids. Insall 5 pheromone traps/ha for monitoring of pink bollworm moths. Destroy rosette flowers. Spray of 5 % NSKE or Chlorpyrifos @ 20 ml per 10 lit water for management of pink bollworm during flowering stage if ETL is crossed.
Nandurbar	19	7	79	2	9	0	34	18	14	11	
Jalgaon		15	0		10	0	26	6	9	10	
Ahmednagar		0.4	0.4	3.8	6	0	13	5	6	5	
Aurangabad		12	2	0	55	5	24	19	7	6	
Jalna		15	0		9	0	18	0	3	10	
Beed		0	0	0	0	0	13	7	4	8	
Nanded		0	2	0	9	0	16	8	5	12	
Parbhani		1	0	0	0	0	15	3	4	8	
Hingoli	7	10	1		5	0	10	0	3	0	
Buldhana		46	0	0	9	0	35	0	4	10	
Akola	44.9	0.2	0		13	0	33	0	7	12	
Washim		15	0	0	13	0	8	0	3	7	
Amravati		42.4	3	0	7	0	41	4	7	14	
Yavatmal		49.6	2.6	0	11	0	12	7	5	12	
Wardha		78.5	0.8	5.4	5	0	12	0	3	8	
Nagpur		93.6	0.3	1.9	6	0	15	0	5	8	
Chandrapur		30.2	7.2	0	22	5	15	12	17	20	
TELANGANA											
Adilabad		29.2	2.4	0			34	38	36	26	The crop is 30 days old at vegetative stage. The weather was hot and humid. Thinning and gap filling was taken up. Pre emergence application of herbicides given. No incidence of pests and diseases. Advisory: As recommended fertilizer application may be taken up.
Warangal		16	0	0			31	15	11	13	
Khammam		1.6	0	0			24	21	7	8	
Karimnagar		3.2	0	0.6			23	19	26	11	
Mahabubnagar			1				16	27	27	34	

AP											
Guntur	0	0	0	0	14	0	30	8	13	10	
Prakasam		0	0	0	3	0	23	15	4	8	
KARNATAKA											
Dharwad		30.8	21.2	7.4	4	0	5	4	4	3	<p>At Chamarajanagara the crop is up to 100 days old at vegetative to boll development stage. During the reporting week, the rainfall distribution was good resulting in emergence of weeds which were managed through appropriate measures. Top dressing of nitrogenous fertilizer (Urea 22 kg/ac) and foliar application (19:19:19 3g/lit) were given depending upon the crop stage. Population of sucking pests like Aphids (20-25/3 leaves), Jassid (4- 5/ 3 leaves), Whitefly (4- 5/ 3 leaves) and thrips (3- 4/ 3 leaves) were observed. Overall the condition of the crop was good.</p> <p>Advisory: Thiamethoxam 25WG @ 2gm or Diafenthiuron 50 WP @ 12gm per 10 liter of water recommended for sucking pest management. Application of nitrogenous fertilizer (N at 10 kg/ac) and Foliar spray of 19:19:19 all at 3g/litre of water recommended.</p>
Haveri		18			3	0	8	6	6	5	
Mysore		39	23	0	4	0	95	18	21	19	
TAMIL NADU											
Perambalur	1	0	0	0	0	0	0	0	24	18	<p>At Srivilliputhur, the crop is 0 to 5 days after sowing at germination stage. Sowing of rainfed cotton in some parts of area by utilizing the pre monsoon rainfall was undertaken and ploughing and field preparation for sowing continued in many parts of area. No weed incidence. No infestation of pests and diseases.</p> <p>Advisory: As the sowing of cotton is under way, acid delinting (con. H₂SO₄ at 100 ml/kg of seeds) and seed treatment with <i>Pseudomonas fluorescens</i> 10 g/kg or <i>Trichoderma viride</i> 4 g/kg or Carbendazim at 2 g / kg of seeds recommended as a prophylactic measure. To maintain optimum plant population in rainfed cotton, recommended seed rate of 15 kg/ ha for varieties to be followed with line sowing of 45 x 15 cm. During last ploughing, neem cake @ 250 kg/ ha may be applied for the management of stem weevil.</p>
Salem		0.3	0.6	0	0	5	10	19	29	11	
Trichy					6	5	7	0	35	18	
Virudhunagar	1	6	0		3	0	0	4	14	3	

Rainfall (mm)

Legend

<5	5-20	21-50	51-80	>80
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0.0 mm rainfall (no rainfall)

Blank space express data not available.

Source: <http://imdagrmet.gov.in>

(Note: Data Assessed from <http://imdagrmet.gov.in> on 12th August, 2019)