

### Fifth Weekly Advisory for Cotton Cultivation from 22<sup>nd</sup> to 28<sup>th</sup> July 2019

Date	ACTUAL RAINFALL in mm IMD				PREDICTED RAINFALL in mm IMD							ADVISORY	
	JULY				JULY								
	18	19	20	21	22	23	24	25	26	27	28		
<b>PUNJAB</b>													<p>At Bathinda and Faridkot, the crop is 60-75 days old and at vegetative and flowering stages and crop condition is good. Heavy rainfall received during the reporting week. At Bathinda, whitefly population varied from 0 - 3 per three leaves but no incidence of leafhoppers and thrips noticed. Incidence of root rot has been observed in farmers' fields after rainfall/ irrigation. At Faridkot, thrips incidence was found low to moderate but leafhopper incidence was above ETL..</p> <p><b>Advisory:</b></p> <ul style="list-style-type: none"> <li>• Farmers are advised to keep regular monitoring of their crop. Farmers should monitor their fields preferably in the early morning before 10 a.m. Install yellow sticky traps to detect the early infestations of whitefly and leafhoppers.</li> <li>• In case of leaf hopper, thrips and whitefly crossing ETL spary Diafenthiuron @200g/acre or Flonicamid @80g or Dinotefuran 60 g/acre.</li> <li>• Spray with neem based insecticides @ 1 litre/acre; if it crosses ETL of 6-8/leaf would also be useful. .</li> </ul> <p>Any location having adult and nymphal population higher alongwith appearance of sooty mold, spray Diafenthiuron 50 WP @ 200g/acre or Pyriproxyfen 10 EC @ 500ml/acre or Spiromesifen 22.9 SC @200ml/acre. Sprays should be carried out either early in the day or later in the afternoon. In case of root rot, drenching around the affected plants with carbendazim or thiram 37.5 + carboxin 37.5 @ 0.2% may be done.</p>
Ferozpur			3	0	0	0	3	14	14	10			
Faridkot	0	0	1	3	0	0	0	3	12	14	7		
Mukatsar			0	0	0	0	3	11	7	3			
Bhatinda	0	0	0	3	0	0	3	3	14	16	3		
Sangrur			0	0	0	0	0	8	40	14	0		
Ludhiana	0	0	0	0	3	0	5	32	22	35	12		

<b>HARYANA</b>												
Hissar	24.2	0	0	0	0	5	0	11	91	40	3	<p>At Sirsa, the crop is 75 to 85 days old at vegetative and reproductive stages and in good condition. Average population of whitefly at farmers' field locations ranged between 9-30/3leaves in Sirsa and 1-20.5/3 leaves in Jind District of Haryana, thrips 10.1-30.4 and leaf hopper 1.3-3.9/3leaves. Incidence of CLCuD was seen at few locations.</p> <p><b>Advisory:</b></p> <ul style="list-style-type: none"> <li>• The incidences of all three sucking pests are building up. Farmers are advised to monitor the crop at regular intervals, carry out intercultural operations and install yellow sticky traps to detect the early infestations of whitefly.</li> <li>• If the population of any sucking pests crossed ETL, apply neem based insecticides @5 ml/ litre of water.</li> <li>• If the incidence of sucking pests is again observed above ETL and mixed infestation of whitefly and thrips is observed, apply Diafenthiuron @200g/acre or Flonicamid @80g or Dinotefuran 60 g/acre in case where mixed infestations of whitefly and leafhopper is observed.</li> </ul>
Jind				0	0	0	0	40	11 8	15	4	
Sirsa				0	0	0	0	9	8	10	0	
Rohtak	88	0	0	0	0	0	0	15	88	73	7	
<b>RAJASTHAN</b>												
Ajmer	0	14 .4	0	24	0	0	24	3	11	17	45	<p>At Banswara, the crop is 21 days old at vegetative stage. No rainfall during reporting period with sunny weather. Intercultural operations carried out for weed management. Fields are weed free. Jassid infestation below ETL. No incidence of disease.</p> <p><b>Advisory:</b></p> <ul style="list-style-type: none"> <li>•During next week, cloudy weather with minimum rainfall has been forecasted with high wind. Overall, there is very less chance of rainfall. Farmers are advised to monitor regularly and spray against sucking pests when infestation seen above ETL.</li> </ul>
Jodhpur	0	0	0	36	13	5	0	0	0	0	20	
Nagaur				16	8	0	0	3	45	17	51	
Pali	0	0	0	36	33	21	35	0	0	10	24	
Sri Ganganagar	0	0	3. 4	4	3	0	0	3	5	9	0	
<b>ORRISA</b>												
Koraput	1	4	10	46	60	23	18	40	56	52	47	<p>The crop is 30 to 40 days old and at vegetative stage. The weather was hot and humid. Hoeing and weeding both manually and by bullock drawn plough, top dressing with 50% N and 50 % K2O and earthing up, incorporation of green manure crop, regular monitoring for pest and disease incidence carried out. Weeding operation is going on in the farmers' field. Incidence of sucking pests like aphids, thrips leaf hoppers was reported but below ETL</p>
Kalahandi	28	1	8. 6	89	55	28	28	43	57	72	24	
Balagir	0	0	0	17	7	0	0	7	23	56	24	

													<b>Advisory:</b> At 21-25 DAS (days after sowing), go for earthing up and incorporation of green manure crops. First top dressing may be done at 25-30 DAS with 50% N and 50% K <sub>2</sub> O after removal of weeds from the field. Regular monitoring of the crop to know about incidence of any pest and diseases. If the population of sucking pests like aphids, jassids and whitefly crosses ETL, spray - Neem based pesticide @ 5 ml/litre of water/. Provide adequate drainage channels to avoid water logging. To prevent square and flower drop, spray NAA (Planofix) @ 3.5 g/15 litres of water at 45 DAS.
<b>GUJARAT</b>													
Amreli	0	0	0	14	147	37	3	3	13	16	5		At Surat, the crop is at germination stage. Spot application of water was given to the germinating crop. Weed infestation with Cyperus rotundus as major weed was noticed in the fields. Intercultural operations were taken up. At Junagadh, the crop is 37 days old at vegetative stage. Irrigation, weeding, and top dressing of Nitrogen were taken up. Minor attack of thrips, mealy bug and leaf hoppers were noticed. The condition was not necessary for any spray as suggested to the farmers. No incidence of diseases. <b>Advisory:</b> Duration of the crop is above 30 days, Apply Ammonium Sulphate or Urea. Those farmers with labour availability spray Quizalofop ethyl 20 ml in 10 liters water for weed control. Also sesame, black gram, soybean as an inter crop in cotton can also be taken up. Install pink bollworm pheromone traps @ 5 per ha for monitoring purpose.
Bhavnagar	0	0	0	14	147	37	4	0	17	18	4		
Jamnagar	0	0		14	41	12	0	0	4	5	4		
Rajkot	0	0		13	90	47	0	0	4	5	4		
Broach	0	0	0	25	58	21	9	3	38	30	14		
Sabarkantha				7	20	30	23	0	0	6	3		
Surendranagar	0	0	0	13	137	47	0	0	0	4	4		
Ahmedabad	0	0	0	12	147	28	5	0	0	5	4		
Baroda	0	0	0	16	102	91	23	0	9	11	6		
Patan				7	137	13	6	0	0	5	4		
Mehesana				3	107	15	6	0	0	5	4		
<b>MP</b>													
Khargaon	0	0	0.4	13	38	58	71	20	32	20	35		At Khandwa, the crop is 25-75 days old at vegetative Stage. Cloudy humid weather prevailed during the reporting week. Gap filling, thinning, Insecticides & fertilizer application, irrigation as per requirement were the operations carried out. Weed infestation was high. Jassids and whiteflies infestation was noticed. No incidence of diseases.  <b>Advisory:</b> Gap filling & thinning should be completed within a week. Weeding and intercultural operations may be performed during the week. Fertilizer to be applied
Dhar	0	0	0	4	26	23	49	10	8	10	16		
Khandwa	0	0	0	0	0	10	15	22	31	36	33		

													at the rate of 150:75:40 Kg/ha. 25% N may be applied at 30 days; 25% N + 50% P+K at 60 days and 25% N at 90 days. In the areas where leaf hoppers and whitefly crosses ETL, the farmers are advised to spray Imidacloprid 17.8 SL 0.3 ml or Thiomethaxam 25 WG 0.25 g or Acetamiprid 25 SP 0.3 g per litre in those places where ETL is crossed.
<b>MAHARASH</b>													
<b>TRA</b>													
Dhule	0	0	0	80	56	32	13	6	19	22	29		At Nanded, the crop is 7 to 42 days old at germination to square formation stage. The weather was clear and cloudy. Intercultural weeding, gap filling and plant protection measures were taken up. Medium level of weed infestation noticed in the fields. Leafhopper infestation observed in some location above ETL. No incidence of diseases. At Akola, the crop is 26 days old at vegetative stage. Medium level of weed infestation noticed in the fields. <b>Advisory:</b> Gap filling and thinning should be done within 10 days after sowing after receipt of sufficient rains. Basal fertilizer dose if not applied at the time of sowing should be applied @ 48:60:60 NPK kg/ha after 15 DAS. Top dressing of Nitrogen, 36 kg/ha in rainfed or 60 kg/ha in irrigated condition should be done by drilling or ring method. Infestation of leafhopper has been observed in few pockets in irrigated crop. Spraying of NSKE 5% or Thiamethaxam 25 WG @ 2.5 g or Acetamiprid 25 SP @ 3 g per 10 lit water should be done for its management.
Nandurbar	0	0	29	41	144	57	21	3	24	26	31		
Jalgaon	0	0	3.5	20	25	58	66	23	19	26	35		
Ahmednagar	0	0	9	105	36	53	49	64	40	23	23		
Aurangabad	0	0	5	0	4	7	18	15	32	15	18		
Jalna	0	0	2	25	12	38	66	41	24	16	24		
Beed	0	0	0	53	12	53	63	81	24	15	31		
Nanded	0	6	29	44	0	27	47	54	37	38	53		
Parbhani	0	9.4	1	33	0	37	63	52	34	19	39		
Hingoli	1		0	42	0	19	56	46	34	19	62		
Buldhana	0	0	15	22	7	38	66	42	39	26	35		
Akola	0	0	0	18	0	20	64	47	38	33	209		
Washim	0	0	0	31	0	17	64	26	25	14	209		
Amravati	0	0	15.6	23	20	20	76	51	48	33	198		
Yavatmal	0	0	0.6	44	0	15	10	54	61	33	209		
Wardha	0	4.8	10.2	24	9	14	14	14	37	30	93		
Nagpur	0	3	19.2	24	10	14	14	14	37	34	57		
Chandrapur	0	0	0	43	7	9	5	32	37	39	31		
<b>TELANGANA</b>													
Adilabad	0	0	0		34	38	36	26	36	33	65		Infestation of sucking pests noticed. No weed infestation. No incidence of diseases. <b>Advisory:</b>
Warangal	0	0	21		31	15	11	13	20	27	20		
Khammam	0	0	0		24	21	7	8	15	31	19		



												Thrips management by spraying Fipronil 5SC @ 1.0mL/L or Flonicamid 50 WG @ 3.0g/L. Leaf blight diseases to be managed by spraying Metiram 55% + Pyraclostrobin 5% @ 2.0 /L of water.
<b>TAMIL NADU</b>												
Perambalur	3	3	7	0	3	0	3	0	0	4	4	The fields are ready with summer ploughing and other field preparation is under progress. The sowing will be initiated during last week of July 2019.
Salem	0	0	0	10	10	30	26	6	17	12	14	
Trichy				3	23	49	10	0	9	11	18	
Virdhunagar	0	0	0	3	16	42	8	0	0	7	5	

<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 1<sup>st</sup> July, 2019)