

**Fourth Weekly Advisory for Cotton Cultivation from 15<sup>th</sup> to 21<sup>st</sup> July 2019**

Date	ACTUAL RAINFALL in mm IMD					PREDICTED RAINFALL in mm IMD						ADVISORY	
	JULY					JULY							
	11	12	13	14	15	16	17	18	19	20	21		
<b>PUNJAB</b>													
Ferozpur						34	107	7	0	9	15	<p>At Faridkot, the crop is 65 days old at vegetative stage. Mechanical/ manual intercultural operations and irrigation were taken up. No serious problem of weed infestation was observed. Thrips incidence was near ETL; No spray is recommended and farmers were advised to irrigate the fields, if needed. Whitefly/3 leaf incidence was below ETL (1-2/leaf).</p> <p>At Bhatinda, the crop is 50 to 65 days old at vegetative stage. Hoeing, weeding, and fertilizer applications are in progress. Whitefly population varied from 0-6 per three leaves, Jassid population varied from 0-7 per three leaves and thrips incidence from 0 – 17 per three leaves. Incidence of root rot was observed in farmers' fields after rainfall/ irrigation. Overall crop condition was good.</p> <p><b>Advisory:</b> If thrips cross ETL, farmers are advised to spray Prophenophos 50 EC @ 500 ml/acre. If incidence further increases, spray Diafenthiuron 50WP @ 200 g/acre or Spinetoram 11.7SC @ 170 ml/acre. If the incidence of whitefly goes above ETL, initiate spray with neem based insecticides @ 1 litre/acre. If leafhopper incidence exceeds ETL, Imidacloprid 17.8 SL or Thiamethoxam 25WG @40g/acre may be sprayed. Farmers are advised to be vigilant about increase in insect-pest during rainy season. They should monitor fields early in the morning before 10 a.m. Sprays should be carried out preferably either early in the morning or late afternoon. Weeding, hoeing, irrigations and fertilizer applications are to be followed wisely. Install yellow sticky traps to detect the early infestations of whitefly and jassids. Hot and humid weather is prevailing increasing the chances of jassid infestation in cotton. So the farmers are advised to regularly monitor their fields. In case, root rot incidence occurs, apply spot drenching of Carbendazim 50% WP @ 25 g/10 liters of water.</p>	
Faridkot	0	0				34	102	0	0	8	0		
Mukatsar						27	51	0	0	9	15		
Bhatinda	0					37	143	0	3	9	15		
Sangrur	0					65	114	14	6	8	0		
Ludhiana	0	0				44	34	25	8	10	14		
<b>HARYANA</b>													
Hissar	0					3	75	13	84	13	0	<p>At Sirsa, the crop is 65 to 80 days old entering into vegetative and reproductive stage. The crop condition is good. At farmers' field locations, whitefly population ranged between 2.7-32.9/3 leaves and thrips 10.9-104.7/3leaves.</p> <p>At Hissar, the crop is 71 to 91 days old at vegetative to flowering stage. The weather was partly cloudy with dusty haze. Second split dose of fertilizer is being applied. Weeding and hoeing are being taken up. At farmers' fields, the population of whiteflies, leafhoppers and thrips varied from 2.3 to 28.6, 0.7 to 12.2 and 13.2 to 35.8 per 3 leaves, respectively. The</p>	
Jind						72	89	24	62	8	0		
Sirsa						5	94	4	3	9	6		
Rohtak		0				0	42	4	84	11	0		

											<p>population of whitefly is building up in early sown cotton and leafhopper in late sown cotton. Thrips population is building up in the areas not receiving rainfall. Solenopsis mealybug (<i>Phenacoccus solenopsis</i>) infestation was observed on few plants. Incidence of Root rot was observed in traces. Incidence of cotton leaf curl virus disease was noticed in several fields..</p> <p><b>Advisory:</b> The incidences of all three sucking pests are building up. Farmers are advised to monitor the crop at regular intervals, do intercultural operations and install yellow sticky traps to detect the early infestations of whitefly. If the population of any sucking pests crossed ETL, apply neem based insecticides @1.0 litre /acre in 200 liters of water. In case there is mixed infestation of whitefly and thrips, apply Diafenthiuron 50 WP @200g/acre and Flonicamid 50 WG @ 60 g/acre. In case, root rot incidence occurs, apply spot drenching of Carbendazim 50% WP @ 25 g/10 liters of water. Timely management of whiteflies helps to reduce the incidence of cotton leaf curl virus disease</p>	
<b>RAJSTHAN</b>												
Ajmer		0				0	0	0	0	0	0	<p>At Banswara, the crop is 14 days old at true leaf stage. The weather was clear with high wind speed. Intercultural operation carried out. Fields are free from weeds. The crop is also free from any insect infestation. No incidence of diseases.</p> <p>At Sriganganagar, the crop is 55 to 85 days at vegetative stage. Need based irrigation applied, weed hoeing to clean the crop, first recommended dose of fertilizer (Urea) also applied. Weeds like Itsit (<i>Trianthema</i> spp.), tandla (<i>Digera arvensis</i>) Motha (<i>Cyperus rotundus</i>) have infested the crop. Jassid noticed below ETL level (3.17-9.33/3 leaves), Whitefly incidence below ETL Level (0.67-1.33/3 leaves) and thrips population observed ranging from 15.67-19.33/ 3 leaves. Occurrences of cotton leaf curl virus disease (CLCuD PDI 10-15 %) at farmers fields.</p> <p><b>Advisory:</b> Farmers are advised to watch crop regularly and spray against sucking pests when infestation seen above ETL. Farmers are advised to spray neem based insecticides @ 5ml/lit. of water for sucking pests (whitefly, jassid, thrips) and spotted bollworm. Flonicamid 50 WG @ 0.3g or Thiamethoxam 25 WG @ 0.5g or Ethion 50 EC @ 3.0 ml per liter of water to be sprayed whenever the whitefly, jassid and thrips crossed ETL. Timely management of whiteflies helps to reduce the incidence of cotton leaf curl virus disease</p>
Jodhpur		0				0	0	4	0	0	0	
Nagaur						0	0	7	0	0	0	
Pali		0				0	0	0	0	0	0	
Sri Ganganagar		0				9	16	4	0	0	0	
<b>ORRISA</b>												
Koraput		0				28	34	46	50	51	25	<p>The crop is 24 to 29 days old at seedling and vegetative stage. Out of the targeted area of 1.6 lakh ha in the State, almost total cotton area has been sown till date. Hot and humid weather prevailed during the reporting season. Application of FYM and basal dose of fertilizer, seed treatment and sowing of seeds, weeding and earthing up are the operations being taken up. Early sown crop has been infested with grassy weeds like <i>Echinochloa</i></p>
Kalahandi	16	0				39	29	76	53	32	6	
Balangir		12.7				9	127	52	58	4	0	

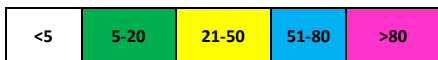
												<p><i>colonom</i>, <i>Cynodon dactylon</i> and <i>Eleusine indica</i> and broad leaf weeds like <i>Trianthema sp</i>, <i>Ageratum conyzoides</i> etc. No incidence of pests and diseases</p> <p><b>Advisory:</b> At 21-25 DAS (days after sowing), farmers are advised to go for earthing up and incorporation of green manure crops. First top dressing may be done at 25 DAS with 50% N and 50% K<sub>2</sub>O. Regular monitoring of the crop to know about incidence of any pest and diseases should be done. Provide adequate drainage channels to avoid water logging in the cotton fields..</p>	
<b>GUJARAT</b>													
Amreli		0	0			0	0	0	0	0	0		<p>At Surat, sowing has been completed. Gap filling is to be done on receipt of rainfall which is awaited. Weed infestation of <i>Cyperus rotundus</i> has been noticed.</p> <p>At Junagadh, the crop is 30 days old at vegetative stage. Inter culturing and gap filling have been taken up. Inter culturing, gap filling, irrigation, thinning and nitrogenous fertilizer application have been taken up during the reporting period. Weeding has been carried out by hand weeding and intercultural operations.</p> <p><b>Advisory:</b> Dry spell is being prevalent in the Saurashtra region. So, farmers having irrigation facilities should provide light irrigation to cotton crop. If rains occur by 25<sup>th</sup> July, sow early maturity cotton varieties/hybrid.</p>
Bhavnagar		0	0	0		0	0	0	0	0	0		
Jamnagar	0					0	0	0	0	0	0		
Rajkot	0	0	0	0		0	0	0	0	0	0		
Broach	0					0	0	0	0	0	0		
Sabarkantha						0	0	0	0	0	0		
Surendranagar		0	0	0		0	0	0	0	0	0		
Ahmedabad		0	0	0		0	0	0	0	0	0		
Baroda		0	0	0		0	0	0	0	0	8		
Patan						0	0	0	0	0	0		
Mehesana						0	0	0	0	0	0		
<b>MP</b>													
Khargaon		0	0	0		0	7	0	0	23	29	<p>At Khandwa, the crop is 16 to 60 days old at vegetative stage. Inter culture practices, sowing of the crop, gap filling &amp; thinning, application of insecticides &amp; fertilizer application is being done. Fields infested with weeds like <i>Echinochloa sp</i>, <i>Commelina sp</i>, <i>Cynodon dactylon</i> and <i>Parthenium</i>, <i>Cyperus rotundus</i>, <i>Chenopodium album</i> &amp; <i>Amaranthus viridis</i>. Jassid incidence is in initial stage. No occurrence of diseases till date.</p> <p><b>Advisory:</b> Sowing should be completed within a week. Weeding and intercultural operations may be performed during the week, kolpa may be completed after 3-4 days of germination, thinning may be completed within a week after germination. Fertilizer may be applied at the rate of 150:75:40 Kg/ha. In the areas where jassid crosses ETL, Imidachlopid 17.8 SL @ 3 ml or Thiamethoxam 25 WG @ 2.5 g or Acetamidrid 20 SP @ 3 gm/10 litres of water should be applied.</p>	
Dhar		0	0	0		0	0	0	0	0	22		
Khandwa													
		0	0	0		0	0	0	0	13	14		
<b>MAHARASHTRA</b>													
Dhule	0	0	1	0	0	0	0	0	0	6	7	<p>At Akola, the crop is 19 days old at seedling stage. Sowing completed all over Vidarbha region which received scanty and uneven rainfall. Medium level of weed infestation noticed in the fields. The seedlings are under stress condition due to dry spell.</p> <p>At Nanded, the crop is 0 to 35 days old from germination to vegetative stage. Sowing, gap filling, weeding and other intercultural operations are the major operations going on. Slight</p>	
Nandurbar	0	0	0	0		0	3	0	0	4	5		
Jalgaon	0	2	1	0		0	0	0	0	27	21		
Ahmednagar	1	0	0	1		0	9	13	12	14	46		
Aurangabad		1	0	0		3	3	0	6	4	0		
Jalna		0	0	0		0	0	0	0	22	17		

Beed		0	0	0		0	9	13	5	17	60	<p>infestation of weeds is observed in June sown crop. Farmers were recommended to spray post emergence weedicide, Pyriithiobac sodium @ 1.2 ml / lit + Quzalofof ethyl @ 1 ml / lit (tank mix) due to labour scarcity. Incidence of jassids have been observed in few pockets in irrigated crop. Spraying of NSKE 5% or Thiamethoxam 25 WG @ 2.5 g or Acetamiprid 20% SP @ 3 g per 10 lit water has been recommended for its management. No incidence of diseases.</p> <p><b>Advisory:</b> Gap filling should be done after receipt of sufficient rains in late sown crop. Basal fertilizer dose 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. Sowing of rainfed cotton should be done at 120 cm X 45 cm spacing after receipt of 75-80 mm rains. Fertilizer dose of 48:60:60 NPK kg/ha should be applied at the time of sowing for better crop growth. Intercropping of Soybean (1:1) or strip cropping of Pigeon pea (6-8:1 or 10:2) must be done for profitable crop production. Seed treatment with Azotobacter and PSB should be done @ 6 ml/kg seed. Sowing of Maize, Cow pea, Okra can be done in cotton as IPM schedule. Intercultural and hand weeding should be done for weed management. Spraying of post emergence weedicide, Pyriithiobac sodium @ 1.2 ml / lit + Quzalofof ethyl @ 1 ml / lit (tank mix) may be done under labour scarcity. Spraying of NSKE 5% should be done for jassids control.</p>
Nanded	6	19	1	0		0	11	4	13	51	83	
Parbhani	0	1	0	1		0	0	3	0	6	48	
Hingoli	1	0	0	0		0	5	0	0	0	48	
Buldhana		0	0	0		0	0	0	0	68	21	
Akola	0	0.4	0	0		0	0	0	3	48	15	
Washim		0	0	0		0	5	0	0	84	17	
Amravati	0	1	0	0		0	3	0	11	84	37	
Yavatmal		0	0	0		5	4	0	28	40	83	
Wardha	0		0	0		0	0	0	34	49	10	
Nagpur	0	1	0	0		7	0	0	63	49	17	
Chandrapur	1	1	0	0		15	10	8	35	33	34	
<b>TELANGANA</b>												
Adilabad		5.8	0	0								
Warangal		3	0	3								
Khammam		0	0	3								
Karimnagar	6.6	4.4	0	0								
Mahabubnagar			0									
<b>AP</b>												<p><b>Advisory:</b> Farmers are advised to take up short duration varieties and synchronized sowings. Seed treatment with fungicides also advocated. At Nandyal, early sown cotton crop is suffering from desiccation due to higher wind velocity and sucking pests like thrips were noticed in some areas which is below ETL. Farmers are advised to spray neem oil @ 5ml/lit of water and stem application with Monocrotophos and water in 1:4 ratio.</p>
Guntur	0	0	0	24.6		24	20	16	18	12	15	
Prakasam		0	0	21.3		24	29	29	19	31	42	
<b>KARNATAKA</b>												<p>At North Karnataka comprising of Dharwad, Haveri, Belagavi, Bagalakot, Vijayapur, Gadag &amp; Uttarkannada Districts, Bt cotton crop sowing is completed in the 90% of cotton growing areas. The crop is 11-20 days old at seedling to vegetative stage. Cloudy conditions with drizzling prevailed during this week in cotton growing areas of all districts. Sowing and application of fertilizer was carried out. More of monocot weeds noticed in farmers' fields controlled by pre emergence herbicide application. For incidence of shoot weevil, sowing of</p>
Dharwad		7	1.4	1.4		0	11	13	10	9	0	
Haveri						7	0	12	15	7	0	
Mysore		0	0	4		23	138	53	62	30 1	59	

												okra seeds @ one row per 20 rows of cotton has been recommended. No incidence of diseases. At Raichur, the <i>Kharif</i> crop is yet to be sown. Only 5% of the area sown by farmers having irrigation facilities. Sowing in other areas is awaited for the receipt of rainfall or canal water availability. Weather was generally humid and cloudy weather prevalent during the reporting period. First inter cultivation started in the early sown crop. Weeds were noticed in the farmers' fields of crop sown area wherein one inter-cultivation operation was carried out. Thrips has been noticed in the 25 days old crop in the area. Farmers were advised to take up spray of Thiamethoxam 25 WG @ 2.5 g in 10 litres of water. <b>Advisory:</b> Top dressing the crop with 25 kg Urea and 25 kg Muriate of Potash fertilizers recommended. Manual weeding is to be taken up.
<b>TAMIL NADU</b>												
Perambur	0	1	0	0		3	3	4	8	0	0	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		2	0	0		4	0	17	12	17	7	
Trichy	0	0	15	30		8	9	5	8	19	12	
Virdhunagar	0		1	0		7	5	29	38	41	47	

Rainfall (mm)

Legend



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)