

ICAR-Central Institute for Cotton Research, Nagpur

XIVth Weekly Advisory for Cotton Cultivation from 16th to 22nd Sep '2019

Date	ACTUAL RAINFALL in mm IMD					PREDICTED RAINFALL in mm IMD						ADVISORY	
	SEPTEMBER					SEPTEMBER							
	12	13	14	15	16	17	18	19	20	21	22		
PUNJAB													
Ferozpur						0	4	0	0	0	0	<p>At Bhatinda, the crop is 100 to 115 days old at boll formation and boll opening stages. Application of 13:0:45, Magnesium Sulphate, Zinc is in progress. Whitefly population varied from 2 - 10 per three leaves, Jassid 0-4 per three leaves and thrips from 0-10 per three leaves. Leaf blight symptoms were observed at some locations. At Faridkot, the crop is 126 days old at boll setting and development phase. Irrigation and foliar fertilization of KNO₃ and Magnesium sulphate were given. Incidence of sucking pests was below ETL. Incidence of cotton leaf curl disease was observed in all the Bt hybrids. Leaf spots were also observed at few locations. Overall good cotton crop is being observed.</p> <p>Advisory:</p> <p>Farmers are advised to keep regular monitoring of their crop for insect-pests. Spray 2% solution of Potassium nitrate where flowering and boll formation has started. If whitefly population crosses ETL, farmers are advised to spray Flonicamid 50 WG @80 g/acre or Diafenthiuron 50 WP @ 200g/acre or Pyriproxyfen 10 EC @ 500ml/acre or Spiromesifen 22.9 SC @200ml/acre. 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. Farmers are advised to manage whitefly to prevent spread of leaf curl virus. Spray the crop with Carbendazim 50%WP 400 g Or Pyraclostrobin 20%WG 200g Or Metiram 55%+ Pyraclostrobin 5% WG 400g per acre after appearance of leaf spot.</p>	
Faridkot	0	0	0			0	3	0	0	0	0		
Mukatsar						0	0	0	0	0	0		
Bhatinda	0	0	0	0	0	0	4	0	0	0	3		
Sangrur						0	12	0	0	4	3		
Ludhiana	0	0.2	0	0	0	0	0	0	0	0	5		
HARYANA													
Hissar	0	0	0	0	0	0	30	0	0	3	0	<p>At Sirsa, the crop is 120 to 130 days having entered into reproductive and boll opening stage. The crop is in good condition. Average whitefly population ranged between 3-17.8, thrips 1-7 and jassid 0-6.0/3leaves. Parawilt symptoms have been noticed at few isolated locations. No pink bollworm (PBW) infestation in farmers' field but trap catches of PBW at a location in front of ginneries in Distt Sirsa and Uchana (Jind) and Shamshabad patti (Sirsa) have been recorded. PBW infestation ranging from 4 to 24% recorded at only one</p>	

Jind						0	12	0	0	4	0	specific location of Uchana (Jind). The incidence of all sucking pests was below ETL but whitefly incidence is in the increasing trend. At Hisar, the crop is 100 to 120 days old at flowering to boll formation stage. The weather was partly cloudy / clear during the reporting period. Foliar application of fertilizer was taken up. Majority of fields are free from weeds. The population of whitefly is near to ETL. Jassid and thrips incidence were low. Incidence of cotton leaf curl disease (CLCuD) recorded but under control. Incidence of sooty mould, root rot (in <i>Desi</i> cotton), <i>fusarium</i> wilt, bacterial blight and <i>Myrothecium</i> leaf spot have been recorded in traces. Overall, the condition of the crop is very good.
Sirsa						0	15	0	0	0	0	Advisory: If the incidence of sucking pests is observed above ETL (whitefly 6 adults/leaf, jassid 2 nymphs/leaf), apply Diafenthuron @200g/acre or Ethion 800 ml/acre for whitefly infestation, Flonicamid @80g/acre or Dinotefuran 60g/acre in case the mixed infestations of whitefly and jassid is noticed. If higher population of eggs and nymphs is observed under the leaves, then apply Pyriproxifen 10 EC @400-500 ml/acre or Spiromesifen 22.9SC @200ml/ acre. In arboreum (Desi) cotton, if the incidence of spotted bollworm is observed, apply Spinosad @75ml/acre or Indoxacarb@200ml/acre in 200 lit of water. In case of parawilt, farmers are advised to spot spray Cobalt chloride @1.0g/100 lit water on affected plants only, Spray the crop with Carbendazim 50%WP 400 g Or Pyraclostrobin 20%WG 200g Or Metiram 55%+ Pyraclostrobin 5% WG 400g per acre against leaf spot. Farmers are also advised to apply Potassium nitrate (N: P:K; 13:0:45) @2.0kg /200 lit water.
Rohtak	0	0	0	0	0	0	10	0	0	0	0	
RAJASTHAN												
Ajmer	0	0	0	0	0	0	7	13	0	0	10	At Sriganganagar, the crop is 110 to 135 days old entering into boll formative and boll bursting stages. Need based irrigation applied and third foliar application of Potassium nitrate 2% has been done. Jassid incidence noticed below ETL (0.33-0.67/3 leaves), Whitefly below ETL (10.67-19.33/3leaves), Thrips (1.33- 6.67/ 3 leaves). Incidence of <i>Earias spp.</i> on desi and non- Bt American cotton have recorded 1.00-2.33 larvae/20 plants. 0.67-1.67 adult moth of pink boll worm caches per pheromone trap/ week. Occurrences of cotton leaf curl virus disease (CLCuD PDI 10-15 %) at farmers fields. At Banswara, the crop is 76 days old at vegetative to flowering and boll formation stages. Crop condition is good but fields are waterlogged, plants stunted due to continuous heavy rains and less sunshine hours. No operations could be carried out, so fields are full of weeds. Population of jassid noticed above ETL but whitefly below ETL. No incidence of disease.
Jodhpur	0	0	0	0	0	0	0	0	0	0	0	
Nagaur						0	5	4	0	4	4	Advisory:

Pali	0	0	0	0	0	0	15	18	0	16	29	Spray of Emamectin benzoate 5 SG @ 4g or Spinosad 45 SC @ 3.5 ml per liter of water is recommended for spotted bollworm control. At Banswara, farmers are advised to make proper drainage system in their fields looking to forecast of rains. Install pheromone traps to monitor PBW (2/acre) and also remove rosette flowers. Watch insect infestation on crop and also parawilt incidence. The parawilt affected plants can be saved by spraying Cobalt chloride @ 10mg/lit of water (10 ppm) immediately after the appearance of symptoms. Farmers are advised to spray any one of insecticide for the control of sucking pests: Acetamiprid 20 SP @40 g/acre or Buprofezin 25 EC @ 500ml /acre or Diafenthiuron 50 WP @ 250g/acre or Flonicamid 50 WG @80g/acre. Do not repeat same insecticides as well as same group of insecticides.
Sri Ganganagar	0	0	0	0	0	0	0	0	0	0	0	
ORRISA												
Koraput	16.4	1	0	0	0	41	29	22	22	54	44	The crop is 90 to 100 days old at boll formation and development stage. The average crop condition is good in all the districts. Weed infestation was reduced by taking control measures. Spodoptera, Spotted bollworm, jassids and thrips infestation reported from all the cotton growing districts. No major cotton diseases reported from any of the cotton growing districts. Advisory: Farmers are advised to regularly monitor the crop to know about incidence of any pest and diseases. If the population of sucking pests like jassid and thrips crosses ETL, spray Flonicamid 50 WG @ 4g/10 lit of water or Thiamethoxam 25 WG @ 2 g/10 lit of water. Spotted bollworms and Spodoptera can be controlled by spraying Chlorantraniliprole 18.5 SC@3 ml/10 lit or Indoxacarb 14.5 SC 10 ml/10 lit of water (ETL- 20 % plants showing one or more flared up squares). Provide cross bunds in the furrows for conservation of rain water during the month of September as the monsoon will recede.
Kalahandi	1.8	0	0	0	4.4	39	5	21	15	27	19	
Balangir	9.5	8.7	0	0	0	12	6	15	8	3	8	
GUJARAT												
Amreli	7.2	0			0	0	0	9	40	39	50	At Junagadh, the crop is 92 days old at flowering and boll development stages. Weeding, earthing up and application of MOP and SSP were taken up. Sucking pests incidence were below ETL. Heavy attack of <i>Corynospora</i> leaf spot and <i>Ascochyta</i> blight noticed in the fields.
Bhavnagar	4.1	0	0	0	0	0	0	17	38	38	36	
Jamnagar	68	0.5				0	0	0	17	0	21	At Surat, crop has entered flower initiation stage. Weeding has been completed. Jassid and thrips noticed above ETL. Bacterial leaf blight was noticed in some of the plants
Rajkot	1	0	0.3	0	0	0	0	0	22	0	36	
Broach	16.2	0	0	0	0	33	8	28	40	37	56	Advisory: Due to heavy to heavy rainfall in Saurashtra region in some parts, fields are under water logging condition. Farmers are advised to do interculturing, weeding and earthing up operations. Application of Ammonium sulphate to soil or 19-19-19(N-P-K-) water soluble
Sabarkantha						5	13	12	13	15	22	
Surendranagar	0	0	0	0	0	0	0	6	22	5	34	

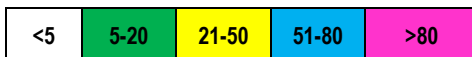
Ahmedabad	0	1.4	2.1	0.2	0	0	3	12	12	12	26	fertilizer 1% is to be sprayed. To control weeds, spray Quisqualop ethyl 5 EC 20 ml in 10 lit of water. In areas under water logging condition, spray 10ppm Cobalt chloride. The incidence of thrips and jassids population are likely to increase in the forthcoming days, so spray Fonicamid 50 WG @ 4g/10 lit of water or Thiamethoxam 25 WG @ 2 g/10 lit of water. To manage foliar disease, spray Metiram55%+ Pyraclostrobin 5WG 20 g and Copper oxychloride 25g + Streptomycin sulphate 1g per 10 lit of water for management of bacterial blight. Collect and destroy rosette flowers of pink bollworm with larva.
Baroda	0	7.4	3	0	0.2	12	16	36	56	45	74	
Patan						0	0	7	0	0	9	
Mehesana						0	0	12	5	3	14	
MP												
Khargaon	1.2	41.2	40.2	3.2	0	41	32	11	21	30	20	At Khandwa, the crop is 81 to 131 days old at vegetative to flowering and squaring to boll formation stages. The weather was mostly cloudy to rainy. Inter cultural practices, application of insecticides and fertilizer application were taken up. Sucking pest incidence noticed below ETL. Root rot seen in waterlogged areas. Drenching taken up with Carbendazim 50%WP 2g/liter particularly near the affected plants. Advisory: Weeding and intercultural operations should be performed during the week. Fertilizers to be applied @ 150:75:40 Kg/ha along with 25% N at 90 days. In the areas where jassid and white fly crosses ETL, apply Imidachloprid 17.8SL 3ml or Thiomethoxam 25 WG @ 2 g or Acetamiprid 20SP @ 2 gm/10 lit of water. Install pheromone traps @ 5/ha to monitor pink bollworm.
Dhar	5.2	56.8	24	0	0.5	14	13	17	12	38	61	
Khandwa	0	0	0	0	0	60	21	29	41	58	62	
MAHARASHTRA												
Dhule	0	0	0	0	1	33	48	28	37	36	50	At Akola, the crop is 82 days old at flowering and square formation stage. Weeding, hoeing and spraying have been taken up. Weed infestation is high due to rains. Medium infestation of aphids and jassid noticed. Also <i>Helicoverpa</i> and pink bollworm infestation noticed at moderate level due to RIB. Overall the crop growth is satisfactory. At Nanded, the crop is 57 to 92 days old at square formation 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 locations. No incidence of diseases. At Chandrapur crop is 80 days old. Jassid, whitefly, thrips and aphids were below ETL. At Wardha crop is 80-85 days old. Jassid infestation was below ETL. At Nagpur crop is 80-85 days old Jassid infestation was above ETL. Advisory: 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 as per soil test values. Foliar application of Urea 2% at 30 DAS and DAP 2% at 60 DAS. Buprofazin 25% @ 20 ml or
Nandurbar	23	4	24	1	1	28	19	28	49	90	89	
Jalgaon	3	6.5	11	0	0	56	48	42	31	50	56	
Ahmednagar	0	0	2.4	2	0	20	52	31	135	71	24	
Aurangabad	8	0.2	1	2	0	27	31	9	0	0	6	
Jalna					15	34	3	43	41	46	51	
Beed	0	5	0	30	0	48	52	30	56	30	28	
Nanded	45	15	0	0	0	39	48	35	37	25	19	
Parbhani	45.1	10.3	0	0.3	0	48	38	37	43	40	28	
Hingoli	9	0		7		39	38	30	31	21	21	
Buldhana	43	0	11	0	3	44	38	35	31	44	51	
Akola	8.9	0	15.9	4.6	0	22	33	16	35	41	18	
Washim	46	5	6	2	0	27	38	22	35	34	21	
Amravati	14.8	8	8	1	4	26	50	37	36	41	20	

Yavatmal	14.6	0	0.2	2	6	39	50	51	35	37	15	Acetamiprid 25 SP @ 2 g or Flonicamid 50% WG @ 4 g per 10 lit water should be sprayed for management of aphids/jassid/Thrips. Install 2 pheromone traps per acre for monitoring of pink bollworm moths. Destroy rosette flowers. Spray of 5 % NSKE or <i>Metarhizium anisopliae</i> @ 40 g or Profenophos 50 EC @ 20 ml per 10 lit water for management of pink bollworm during flowering stage if ETL is crossed.
Wardha	3	9.6	3	1	0.6	28	50	31	22	37	7	
Nagpur	12	6.8	3.8	0.2	0.8	28	50	44	24	29	12	
Chandrapur	56.3	0	0	3	7	32	41	42	15	37	0	
TELANGANA												
Adilabad	25	9	5.2	0	4		50	51	35	25	12	At Nandyal, the crop is 46 to 90 days old at flowering to boll formation stage. The weather was humid with heavy rains. The excess water was drained out from the fields. Grassy and broad leaved weeds have infested the crop. Jassid infestation was noticed above ETL where as whiteflies and thrips were below ETL. Pink bollworm infestation in flowers was also below ETL. <i>Spodoptera litura</i> and <i>Earias vitella</i> incidence was recorded on BGII. Spodoptera population might have migrated from surrounding fields. <i>Alternaria</i> leaf spot disease incidence was noticed in few fields.
Warangal	2	0	0	22	0		33	28	26	22	0	
Khammam	0	5.8	0	2	38		35	27	22	13	0	
Karimnagar	17	5.6	0	0	0		24	34	21	17	4	
Mahabubnagar	0	1	0.2	7	0		34	27	29	7	20	
AP												
Guntur						36	37	50	28	10	5	At Guntur, the crop is up to 60 days old at vegetative to square initiation and flowering stages. The weather was hot and humid. First split application of fertilizers and weeding were taken up. Initiation of Pink Bollworm incidence was noticed in some of the cotton growing areas. Root rot diseases were observed in heavy rainfall areas. Advisory: For the management of sucking pests, farmers are advised to spray Imidacloprid 17.8 SL @ 80 ml or Acetamiprid 20SP @ 40g or Flonicmid 50WG@ 80 g or Diafenthiuron 50WP @ 250g per acre. For the management of pink bollworm, install pheromone traps @2per acre and for monitoring and if it crosses ETL, spray Neem oil @ 5 ml or Thiodicarb@ 1.5 g or Profenophos @ 2ml per lit of water. <i>Spodoptera</i> incidence to be controlled by spraying Novaluran 8.8SC@ 10ml or Chlorantraniliprole 18.5 SC@3 ml/10 lit of water. For the management of spotted bollworm, farmers are advised to spray Spinosad 45SC@ 60 ml or Indoxacarb 14.5SC @ 200ml per acre. Wherever water stagnation is noticed, drain out the excess water from field and spray urea@ 20 g or DAP @ 10 g or 19-19-19 @ 5g per lit of water. Spray carbendazim 50WP 10g/10 litre water for the management of leaf spot. Farmers are advised to install pheromone traps @ 2/acre and monitor the Pink bollworm infestation. Drench carbendazim 50WP 20g/10 litre water at the root region to control root rot.
Prakasam	0	0	9.6	3.5	2	41	57	50	28	11	8	

KARNATAKA												
Dharwad	0	0	0	0	6	8	19	32	6	3	0	<p>At Dharwad and adjoining districts, the early sown crop is 75 days old at vegetative to flowering stages. Low rainfall and cloudy weather prevailed during this week in cotton growing areas of all districts. Inter-cultivation, hand weeding and foliar applications of fertilizer were carried out. Weed population is under control. Thrips and jassid incidence were noticed in moderate status. Pink bollworm moths were below ETL. Incidence of Leaf blight diseases was noticed with moderate status. In Chamarajanagara district, the crop is between 20 days to 125 days old, No rainfall during the reporting week. Weed incidence was noticed managed with appropriate cultural and chemical measures. Population of sucking pests like aphids (25 to 30/3 leaves), jassid (3 to 4/3 leaves), mirid bugs (8-10 for 25 squares) were observed. 3-4% of pink boll worm incidence was noticed. Overall the condition of the crop is good.</p> <p>Advisory: Intercultivation, manual weeding and earthing up operation to be taken up in the forthcoming days. Farmers are advised to manage jassid by spraying Flonicamid 50 WG @ 4g/10 litre, Shoot weevil by spraying Profenophos 50 EC @ 2.0 ml/10 litre water and thrips by spraying Fipronil 5 SC @ 10 mL/10L water. Leaf blight diseases should be controlled by spraying Pyraclostrobin 20%WG 10g Or Metiram 55%+ Pyraclostrobin 5% WG 20g /10 L of water. Install pheromone traps @ two per acre in the early sown crops to monitor pink bollworm moth activity. Farmers of Chamarajanagara district are advised to spray Thiamethoxam 25WG @ 2gm or Diafenthiuron 50 WP @ 10gm per 10 litre water for sucking pest and Thiodicarb 75WP@ 2 gm/lit for PBW incidence.</p>
Haveri						6	20	33	6	0	4	
Mysore	5	2	0	0	0	25	19	19	18	10	3	
TAMIL NADU												
Perambalur	25	2	44	0	24	0	8	10	0	0	8	<p>At Srivilliputhur, the crop is 25 to 35 days old at vegetative stage. The weather during the reporting period was moderately hot with little rainfall. Irrigation and weeding operations have been taken up. Incidence of jassid and thrips have been noticed but below ETL. No incidence of diseases.</p> <p>Advisory: Irrigation may be stopped as sufficient rains were received during last few days. Hand weeding should be done to control the rapid spread of weeds. Second thinning to be done. First top dressing of fertilizers should be given.</p>
Salem	44	2	4	12	10	27	28	34	22	14	9	
Trichy						35	11	14	14	8	8	
Virudhunagar	11	0	0	13	0	3	6	3	4	0	0	

Rainfall (mm)

Legend



0.0 mm rainfall (no rainfall)

Blank space express data not available. Source: <http://imdagrmet.gov.in>