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An ISO 9001:2015 Certified Organisation

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A. General advisory on soil health, nutrition, pest and disease management

Higher cotton yields rely on balanced soil nutrition, water management, and proactive, monitoring-based pest and disease management. Implementing a holistic and integrated crop management plan ensures proper growth and vigour, reduces input costs, and protects the crop from devastating pest and disease damage.

Soil health & nutrition management (INM)

- **Optimize macronutrients:** Improve soil health by prioritizing crop rotation, organic amendments, and cover crops, and by using rational chemical fertilization based on pre-sowing soil testing.
- **Apply micronutrients:** Address secondary and micronutrient deficiencies (such as Zinc, Boron, Manganese, and Magnesium) proactively via targeted foliar sprays as needed.

Disease management (IDM)

- **Deploy preventative practices:** Management of both soil-borne and foliar pathogens should be achieved through integrated cultural practices, including proper field sanitation and the application of biopesticides and biofertilizers as seed and soil treatments to enhance plant health and suppress disease incidence.
- **Control foliar outbreaks:** Regular field monitoring should be undertaken during periods of high humidity, and recommended fungicides should be applied judiciously only when prevailing environmental conditions are conducive to rapid disease development and spread.

Integrated pest management (IPM)

- **Conduct field scouting:** Perform weekly field scouting to monitor sucking pests (such as thrips, aphids, jassids and spider mites) alongside bollworms.
- **Utilize traps & biopesticides:** Deploy pheromone traps early in the season to track adult moth flights, predict egg-laying cycles and apply organic, natural or plant-based pesticides as a primary response.
- **Conserve natural enemies:** Safeguard beneficial insects like lady beetles, lacewings and big-eyed bugs by choosing highly selective insecticides over broad-spectrum formulas.
- **Restrict chemical interventions:** Use label-recommended chemical pesticides strictly as a last resort, deploying them only when pest populations reach established economic thresholds.

Clean Picking and storage

- Follow the standard procedures for clean cotton picking so as to fetch a good market price.
- Discourage use of plastic bags, plastic sheets material other than cotton for collection and storage

B. Location-specific advisory

PUNJAB		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Firozpur								0	0	0	0	0
	Faridkot	0	0	0	0	0	0	0	0	0	0	0	0
	Muktsar								0	0	0	0	0
	Bhatinda	0	0	0	0	0	0	0	0	0	0	0	0
	Sangrur								0	0	0	0	0
	Ludhiana	0	0	0	0	6.8	0	0	0	0	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm			115.6 to 204.4	
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall			Very heavy rainfall	

Crop condition

At Bathinda, the crop is 127 to 147 days old and is at boll maturity stage. Hoeing and weeding are in progress. Insecticide spray to control pink bollworm and foliar spray of Potassium nitrate and Magnesium Sulphate were taken up. Whitefly population varied from 4-28 per three leaves. Incidence of green boll damage due to pink bollworm varied from 0 to 30 per cent and no open boll damage. No major incidence of diseases in cotton fields.

At Faridkot, the crop is 135 to 145 days at boll maturity/ opening stage. Sprays for management of bollworms were done. Pink bollworm incidence has crossed ETL at all locations. Most of the farmers did not spray against PBW during September due to which the flowers and green bolls showed pink bollworm infestation. Dusky cotton bug incidence was noticed in some of the fields where boll opening has started.

Advisory:

At Bathinda, farmers are advised to apply four sprays of 2% Potassium nitrate (13:0:45) at weekly intervals in cotton fields during the boll maturity stage. If the whitefly adult population is above ETL, spray Afidopyropen 50 DC @ 400 ml per acre or Flonicamid 50 WG @ 80 g per acre or Clothianidin 50 WG @ 20 g per acre or Dinotefuran 20 SG @ 60 g per acre or Pyriproxyfen @ 200 g per acre. To control jassid population above ETL, spray Dinotefuran 20 SG @ 60 g/acre or Tolfenpyrad 15 EC @ 300 ml/acre or Fenpyroximate 5 EC @ 300 ml/acre. In case of thrips population above ETL, spray the crop with Profenophos 50 EC @ 500 ml/acre or Spinetoram 11.7 SC @ 170 ml per acre. If thrips and PBW population recorded above ETL then, spray Profenophos 50% EC @ 500 ml per acre. Install pheromone traps @ 2 per acre to monitor the population of PBW. Remove and destroy 'rosette flowers', if any. Spray Emamectin benzoate 5 SG @ 100 g/acre or Spinetoram 11.7 SC @ 170 ml/acre using 200 litres of water, if green boll infestation is above 5% (ETL). If incidence of parawilt is observed in the fields, apply drenching with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP @ 100 g plus Urea 2 kg/100 litres of water at one-week intervals starting immediately after symptom development or spray Cobalt chloride solution 10 mg/ litre of water immediately after the appearance of symptoms on the affected plants and repeat twice at 5-7 day intervals. Manage the whiteflies with recommended doses of insecticides to check spread of CLCuV. Spray Azoxystrobin 18.2% + Difenoconazole 11.4% SC @ 200 ml in 200 litres of water to control fungal foliar leaf spots of cotton. In case sooty mould develops, apply 1-2 prophylactic/therapeutic sprays of Propiconazole 25% EC @10 ml/10 litres (500 ml/ha) or Copper oxychloride (COC) 50% WP @ 25 g/10 litres (1250 g/ha) at 10-15 days interval.

At Faridkot, farmers are advised to apply Potassium nitrate (13:0:45) spray @ 2% to improve boll size and cotton quality in a 7-10 days interval. If whitefly infestation exceeds ETL, spray Flonicamid 50 WG @ 80 g/acre or Dinotefuran 20 SG @ 60 g/acre. In case of higher infestation of whitefly adults and nymphal population, prefer Ethion 50 EC @ 800 ml/acre or Afidopyropen @ 400 ml/acre alternately with Pyriproxyfen @ 500 ml/acre. If the infestation increases, spray Profenofos 50 EC @ 500 ml/acre (in 200 litres of water for one acre). Monitor pink bollworm using funnel or delta traps baited with Gossypure, @ 2 traps per acre, and installed at about 15 cm above the crop canopy. Replace the lure after every 30 days or as per the label specifications. Spray Profenophos 50% EC @ 500 ml per acre or Emamectin benzoate 5 SG @ 100 g/acre or Spinetoram 11.7 SC @ 170 ml/acre using 200 litres of water, if green boll infestation is above 5% (ETL). Keep the fields and fallow/barren areas around the farm/canals, etc., free from weeds, which act as collateral hosts of leaf curl virus. After irrigation, some plants might show wilting due to Para wilt which can be checked by spraying Cobalt chloride @ 10 mg/ litre of water on the affected plants at the initial stage of wilt symptoms. For management of thrips-transmitted Tobacco Streak Virus (TSV), strictly follow field sanitation, particularly removal of *Parthenium* weed in and around the cotton fields and recommended management practices for thrips. Keep the fields and fallow/barren area around the farm/ canals etc. free from Kanghi buti (*Sida* sp.) and Peeli buti (*Abutilon* sp.) which act as collateral hosts of CLCuD. In case sooty mould develops, go for 1-2

prophylactic/therapeutic sprays of Propiconazole 25% EC @10 ml/10 litres (500 ml/ha) Or Copper oxychloride (COC) 50% WP @25 g/10 litres (1250 g/ha) at 10-15 days interval. The first picking of timely sown cotton has started at farmers' fields. Cotton should be picked dry, free from trash, with no dew on it.

HARYANA		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Hisar	0	0	0	0	0	0	0	0	0	0	0	0
	Jind								0	0	0	0	0
	Sirsa								0	0	0	0	0
	Rohtak	0	0	0	0	0	0	0	0	0	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm		64.5 to 115.5 mm		115.6 to 204.4			
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall		Heavy rainfall		Very heavy rainfall			

Crop Condition:

At Hisar, the crop is 126 to 161 days at boll formation to boll opening/ maturity stage. Picking is in progress in some fields. Foliar spray was given during the reporting period. Whitefly and jassids incidence were less than ETL in most of the fields. However, trap catches and green boll damage due to pink bollworm was above economic threshold in several fields. Less severity of cotton leaf curl virus disease was noticed in addition to boll rot in some fields. Root rot and wilt were also observed in patches of some fields.

At Sirsa, the crop is 135 to 155 days old at boll formation and boll opening stages. Cloudy, hot, humid and dry weather prevailed during the reporting period. First picking is in progress at all surveyed locations while second picking started at few locations. Weed infestation was noticed at a few locations in the cotton field with poor plant stand. Para wilting symptoms were also noticed at scattered locations due to nutrient and water stress. The population of jassids ranged between 01-10/ three leaves, whitefly increasing above ETL between 12-31/ three leaves and thrips above ETL between 01-05 nymphs and adults / three leaves. Pink bollworm infestation was also reported above ETL with 30-50% green boll damage. CLCuD incidence was very low in surveyed locations.

Advisory:

At Hisar, farmers are advised to apply irrigation to cotton crop. Give foliar spray of 13:00:45 @ 2 kg per acre during the peak fruiting stage at 7 to 10 days interval. Need based foliar spray of Urea @ 2.0% and Zinc sulphate 21% @ 0.5% can also be applied to obtain proper growth. Take up hand hoeing with kasola at appropriate stages. To control jassids and whitefly, spray Flonicamid 50 WG @ 80 g per acre and Afidopyropen 50 G/L DC @400ml. In case of moderate to high infestation of whitefly with nymphal population, spray Pyriproxyfen 10 EC @ 400 ml or Spiromesifen 240 SC @240 ml per acre. Do not follow tank mixing of insecticides. Since the infestation of pink bollworm started appearing, install pheromone traps @ 2 / acre. Examine at least 100 flowers or 20 green bolls per acre for pink bollworm infestation. Collect and destroy infested and rosette flowers in an early flush of flowering stage. In case of pink bollworm infestation in flower/bolls crosses the economic threshold (>5 %), spray Emamectin benzoate 5 SG @100 g or Profenofos 50 EC @ 500 ml/acre or Quinalphos 20 AF @ 400 ml per acre. Follow-up spray of an alternate insecticide may be done after 10-12 days of the previous spray. In root rot and wilt affected patches, drench the affected plant roots and surrounding plants with Carbendazim 50 WP@ 1.2 g/litre water. If parawilt is observed, apply 2-3 drenching with solution of Copper oxychloride 50 % WP @ 250 g or Carbendazim 50% WP @120 g plus Urea 2 kg per 100 litres of water at one week interval starting immediately after symptom development. Take up picking of stress mediated good opened bolls after proper drying of moisture. For the management of boll rot and leaf spots, foliar spray of Carbendazim 12%+Mancozeb 63% WP @30 g followed by Propineb 70% WP @25-30 g or Propiconazole 25% EC @10 ml or Azoxystrobin 18.2 % w/w+Difenoconazole 11.4% w/w SC @ 10 ml or Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC @ 6 ml in 10 litres of water is recommended especially during flowering 60-120 days and as per weather conditions. In case sooty mould develops, apply 1-2 prophylactic/therapeutic sprays of Propiconazole 25% EC@10 ml/10L (500 ml/ha) Or Copper oxychloride (COC) 50% WP @ 25 g/10L (1250 g/ha) at 10-15 days interval.

At Sirsa, farmers are advised to irrigate the field wherever required and apply a pending split dose of Nitrogenous fertilizer, if any. In case of sudden wilting, yellowing and reddening of leaves occur, apply light irrigation and broadcast 15-20 kg urea per acre. 2-3 foliar spray of NPK (13:00:45) @ 2 kg and MgSO₄ @ 1 kg in 200 litres water per acre and repeated 2-3 times must be applied at weekly intervals. In case of appearance of parawilt symptoms, apply 2-3 drenches with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP @ 100 g plus Urea 2 kg per 100 litres of water at one week interval starting immediately after symptom development or spray Cobalt chloride @ 10 mg (one gram in 100 ltrs water) or Sodium benzoate @ 50 mg per litre (5 g in 100 litres water) of water immediately after the appearance of symptoms (within 24 hours)

on affected plants only. Keep monitoring whitefly population manually and/or using yellow sticky traps @ 8-10/acre and keep the field bunds and surroundings free from other alternate host plants of whitefly. Continue monitoring for other sucking pests like jassids and thrips by observing 20 plants per acre and from underneath three leaves from each plant. To manage whitefly adults, apply Dinotefuran 20 SG @ 60 g or Flonicamid 50 WG @ 80 g or Afidopyropen 50 G/L @ 400 ml or Diafenthiuron 50 WP (wherever appropriate humidity exists either due to irrigation or rainfall) @ 200 g or Profenophos 50 EC @ 500 ml/acre in 200 litres of water. In case sticky, shiny and oily leaves observed with higher whitefly nymphs, apply Pyriproxyfen 10 EC @ 500 ml or Buprofezin 25 SC @ 400 ml or Spiromesifen 22.9 SC 240 ml per acre in 200 litres of water 3-5 days after spray to control adults. In the case of sooty mold, spray Propiconazole 25 EC @ 1 ml/litre or Copper oxychloride (COC) 50 WP @ 2.5 g/litre once or twice at 10-15 days interval. Manage jassid incidence by applying Tolfenpyrad 15 EC @ 300-400 ml or Fenpyroximate 5 EC @ 300 ml or Dinotefuran 20 SG @ 60 g/acre in 200 litres of water wherever the population crosses ETL (2 nymphs/leaf). Install yellow sticky traps @ 8-10 per acre to monitor whitefly population. Manage initial growing population of thrips and PBW by spraying 5% neem seed kernel extract (NSKE) or Azadirachtin 1500 ppm (0.15% EC) @ 5 ml/litre of water. Manage pink bollworm population by spraying Emamectin benzoate 5 SG @ 100 g or Spinetoram 11.7 SC @ 170 ml or Profenophos 50 EC @ 500 ml per acre and use 200 litres water per acre. Control spotted bollworm at 5% fruiting body damage (flared square or in shed fruiting bodies) in Desi (*arboreum*) cotton by spraying Spinosad @ 75 ml/acre in 200 litres of water. Under heavy rainfall and waterlogging conditions, maintain proper drainage in the field to remove excess water from the fields to prevent crop damage. Monitor root rot and wilt disease incidence regularly. Drench early symptomatic and surrounding plants with *Trichoderma* spp. 1% WP @ 50 g or Carbendazim 50% WP @ 12 g/ 10 litres of water to manage root rot and wilt disease.

RAJASTHAN		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Ajmer	0	0	0	0	0	0	0	0	0	0	0	0
	Jodhpur	0	0	0	0	0	0	0	0	0	0	0	0
	Nagaur								0	0	0	0	0
	Pali	0	0	0	0	0	0	0	0	0	0	0	0
	Sri Ganganagar	0	0	0	0	0	0	0	0.1	0	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

In Sriganganagar and Hanumangarh districts, the crop is 131 to 147 days old at boll development to boll bursting stage. Picking is in progress in timely sown crop. Jassid ranged from 0.0 to 4.0/three leaves, whitefly incidence noticed 0.0 to 27.0/three leaves and thrips population observed ranging from 0.0 to 5.0/three leaves.

At Banswara, the crop is 85 to 92 days old at flowering and boll formation stages. The fields are clean and good crop condition due to timely sprays. No infestation of weeds. Among sucking pests, the incidence of whitefly was below ETL and jassids above ETL. No PBW infestation or incidence of diseases.

Advisory:

In Sriganganagar and Hanumangarh districts, farmers are advised to monitor the crop for insect pests and disease regularly. The locations found infested with pink bollworm last year need to be monitored closely for PBW infestations this year. Install pheromone traps @ 5/ha to monitor pink bollworm activity. In case of recording rosette flowers of more than 5 out of 100 flowers or bolls infestation more than 5%, spray Profenophos 50% EC @ 2.5 ml/litre or Emamectin benzoate 5 SG @ 0.50 g/litre or Indoxacarb 14.5 SC @ 1.0 ml/litre of water. Apply a spray of Flonicamid 50 WG @ 0.40 g/ litre or Afidopyropen 50 DC @ 1.50 ml/litre of water or Thiamethoxam 24 WG @ 0.5 g/litre of water to control jassids and whitefly while in case of nymph of whitefly, apply Pyriproxyfen 10% EC @ 2.5 ml/litre or Spiromesifen 22.9 SC @ 1.25 ml/litre of water. While in case of thrips infestation above ETL, spray Spinetoram 11.7 SC @ 0.84 ml/litre or Profenophos 50 EC @ 2.5 ml/ litre of water. In case sooty mould develops, give 1-2 prophylactic/therapeutic sprays of Propiconazole 25%EC @ 10 ml/10L (500 ml/ha) Or Copper oxychloride (COC) 50% WP @ 25 g/10 litres of water (1250g/ha) at 10-15 days interval. In case of sudden wilting, yellowing and reddening of leaves occur, apply light irrigation and broadcast 15-20 kg urea per acre. 2-3 foliar spray of NPK (13:00:45) @ 2 kg and MgSO₄ @ 1 kg in 200 litres water per acre, and repeated 2-3 times must be applied at weekly intervals. In case of appearance of parawilt symptoms, apply 2-3 drenches with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP @ 120 g plus Urea 2 kg per 100 litres of water at one week interval starting immediately after symptom

development or spray Cobalt chloride @ 10 mg (one gram in 100 lits water) or Sodium benzoate @ 50 mg per lit (5 g in 100 litres water) of water immediately after the appearance of symptoms (within 24 hours) on affected plants only.

In southern Rajasthan (Banswara, Bhilwara, Chittorgarh, Dungarpur, Pratapgarh, Rajsamand, Salumber and Udaipur), where manual weeding is not possible in moist soil condition, farmers are advised to go for application of herbicides like Quizalofop ethyl 5 % EC @ 2 ml /litre water if the field is infested with grassy weeds or Pyriithiobac sodium 10 % EC @ 1.25 ml/litre water for broad leaved weeds or Pyriithiobac sodium 6% EC + Quizalofop Ethyl 4% EC @ 2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Continue monitoring cotton fields for any signs of sucking pest infestation. Spray 5% neem seed kernel extract (NSKE) or Azadirachtin 1500 ppm (0.15% EC) @ 5 ml/ litre of water to control sucking pests if it goes beyond ETL. Install yellow sticky traps 8-10/acre to manage whitefly and jassids. In case of sucking pests exceeding ETL, spray any one of these insecticides: Buprofezin 25 EC @ 1.25 litre/ha or Diafenthiuron 50 WP @625 g/ha or Flonicamid 50 WG @ 200 g/ha. Install pheromone traps for pink bollworm monitoring (5/ha). Regularly monitor pink bollworm occurrence and destroy the affected flowers (rosette flowers) along with larvae. For the management of leaf spot disease, foliar spray of Carbendazim 12%+Mancozeb 63% WP @30 g followed by Propineb 70% WP @25-30 g or Propiconazole 25% EC @10 ml or Azoxystrobin 18.2 % w/w+Difenoconazole 11.4% w/w SC @ 10 ml or Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC @ 6 ml in 10 litres of water is recommended.

ODISHA		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Koraput	0	0	0	0	0	0	0	0.2	0	0.5	0.2	0.1
	Kalahandi	0	0	0	54	0	0		0.1	0.2	0.2	0	0
	Balangir	0	0	0	0	0	0		0.1	0.1	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

In Odisha, the crop is 85 to 89 days old at boll formation to boll development stage. Applied need based herbicides to control weeds, insecticides to control sucking pests like aphids and other foliage feeders like Spodoptera and semi-loopers during the reporting period. Sprayed 100 g MgSO₄ with 100 g Urea per 10 litres of water to manage leaf reddening of cotton in places where it occurred due to water logging conditions. All types of weeds, i.e., broad leaf, grasses and sedges, were noticed in most of the cotton fields. Infestation of aphids, jassids, Spodoptera, semi-loopers, leaf miners, leaf folders and stem weevil were reported from some areas but below ETL. Wilting and leaf reddening were reported from some places.

Advisory:

As sunny weather is prevailing after heavy rains due to low pressure, farmers are advised to take extra care towards plant protection against pest and diseases. Apply Glufosinate Ammonium 13.5 % @ 50ml/10 litre water as directed spray using hoods to control all types of weeds. Regularly monitor the crop to know about the incidence of any pests and diseases. To prevent sucking pests like aphids, jassids and thrips, spray neem-based pesticide @ one lit per acre in 200 litres of water. After 60 DAS of crop stage, spray Buprofezin @ 20 ml/10 litres of water when aphid population is above ETL (≥2 affected plants counted randomly showing symptoms cupping / crumpling of few leaves on the upper portion of plant (10% plants infested). To monitor pink bollworm and Spodoptera infestations, install pheromone traps baited with Gossyplure and Spodlure, respectively @ 5 traps /ha. If parawilt or sudden wilt occurs due to heavy rain and waterlogging after a dry spell, spray Cobalt chloride @10 mg/litre (10ppm) or 2-3 drenching with solutions of Copper oxychloride 50% WP @250 g or Carbendazim 50% WP @100 g plus Urea 2 kg per 100 litres of water at one week interval starting immediately after symptom development on affected plants. Spray the crop with 100 g MgSO₄ mixed with 100 g Urea in 10 litres of water in waterlogged areas to reduce leaf reddening conditions. Drench early symptomatic and surrounding plants with *Trichoderma spp.* 1% WP @50 g or Carbendazim 50% WP @12g/ 10 litres of water to manage root rot and wilt diseases.

GUJARAT		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Amreli	0	0	0	0	0	0	0	0	0	0	0	0
	Bhavnagar	0	0	0	0	0	0	0	0.1	0.2	0.1	0.2	0

	Jamnagar	0	0	0	0	0	0	0	0	0.7	0.1	0.1	0
	Rajkot	0	0	0	0	0	0	0	0	0.7	0.2	0.2	0.1
	Junagadh	0	0	0	0	0	0	0					
	Sabarkantha								0	0	0	0	0
	Surendranagar	0	0	0	0	0	0	0	0	0.4	0.2	0.1	0
	Ahmedabad	0	0	0	0	0	0	0	0	0	0.1	0	0
	Baroda	0.6	0	0	0	0	0	0	0	0	0	0	0
	Patan								0	0	0.1	0	0
	Mehesana								0	0	0.1	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm		64.5 to 115.5 mm		115.6 to 204.4			
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall		Heavy rainfall		Very heavy rainfall			

Crop Condition:

At Surat, the sown crop is 73 to 78 days old at flowering stage. Weeding, fertilizer application and intercultural operations were taken up during the reporting period. Weeds have infested the fields. Thrips and leaf hopper incidence was noticed above ETL. Scattered population of mealybug and aphid observed. Infestation of BLB in moderate status has been reported.

At Junagadh, the sown crop is 84 days old at flowering and boll formation stage. Intercultural operations, weeding and insecticide spray were done during the reporting period. Kharif weeds have infested the cotton fields. Dry spell is prevailing and irrigation to cotton is under progress. Heavy incidence of thrips was noticed above ETL at most locations. TSV in cotton was observed in isolated spots. Moisture stress is observed at many locations, so parawilt have started in few fields. Flower and boll dropping were noticed at many places

Advisory:

At Surat, farmers are advised to carry out field sanitation. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5 % EC @ 2 ml /litre water if the field is infested with grassy weeds or Pyriithobac sodium 10 % EC @ 1.25 ml/litre water for broad leaved weeds or Pyriithobac sodium 6% EC + Quizalofop Ethyl 4% EC @ 2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. While in case of thrips infestation above ETL, spray Spinetoram 11.7 SC @0.84 ml/lit or Profenophos 50 EC @ 2.5 ml/ litre of water. Check *Fusarium* wilt patches along with one-meter radius of healthy plants in desi cotton fields with suitable fungicide application. For the control of wilt and root rot disease, give spot application of Carbendazim 50% WP@ 1.2 g per litre of water or *Trichoderma harzianum* or *T. viride* 1% WP@10 g/ litre of water. If parawilt is observed, apply 2-3 drenchings with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP@ 100 g plus Urea 2 kg per 100 litres of water at one-week interval starting immediately after symptom development. Foliar application of *Pseudomonas fluorescens* WP @0.2% is recommended to manage bacterial blights. Collect and destroy alternate hosts and scattered infested mealybug plants, if found. Give foliar spray of Potassium nitrate (13:0:45) @ 2% to improve boll setting and reduce flower drop. If cotton crop is more than 90 days old, do detopping or spray growth retardant Cycocel 0.4 g in 10 litres of water

At Junagadh, farmers are advised to give top dressing of Ammonium sulphate 10 kg per acre or Urea @15 kg/acre and Potash @25 kg/acre along with irrigation. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5 % EC @ 2 ml /litre water if the field is infested with grassy weeds or Pyriithobac sodium 10 % EC @ 1.25 ml/litre water for broad leaved weeds or Pyriithobac sodium 6% EC + Quizalofop Ethyl 4% EC @ 2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. While in case of thrips infestation above ETL, spray Spinetoram 11.7 SC @0.84 ml/litre or Profenophos 50 EC @ 2.5 ml/ litre of water. In case of jassid exceeding ETL, spray any one of these insecticides: Buperfezin 25 EC @ 1.25 litre/ha or Diafenthiuron 50 WP @ 625 g/ha or Flonicamid 50 WG @200 g/ha. Manage parawilt damage by spraying water soluble fertilizer (13-0-45, NP K) @ 100 g in 10 litres water and drench the affected plants 2-3 times at weekly interval with Copper oxychloride 50 WP@ 25 g or drench with solution of Carbendazim 50 WP@100 g plus Urea 2 kg/100 litres of water immediately after symptom appearance. For the management of wet weather blight and boll rot, foliar sprays of (Carbendazim 12%+Mancozeb 63% WP) @ 25 g or Propiconazole 25% EC @10 ml or (Azoxystrobin 18.2% w/w+Difenoconazole 11.4% w/w SC) @ 10 ml or (Pydiflumetofen 13.6% w/w + Propiconazole 11.4% w/w SE) @12 ml or (Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC) @ 6 ml in 10 litres of water is recommended. For the management of TSV, removal of Parthenium weeds from fields and surrounding area with foliar sprays of Spinetoram 11.7 SC @0.84 ml/litre or Profenophos 50 EC @ 2.5 ml/ litre of water for thrips infestation. For management of flower and boll dropping, spray Alpha-Naphthyl Acetic Acid (NAA) 4.5% SL @ 0.3 ml/lit water.

MADHYA PRADESH		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Khargaon	0	0	0	0	0	0	0	0.1	0	0	0	0
	Dhar	0	0	0	0	7.2	0	0	0	0	0	0	0
	Khandwa	0	0	0	0	0	0	0	0	0	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

At Khandwa, the sown crop is 77 to 125 days old in its flowering and boll development stage. Spot weeding and fertigation given wherever required. Seasonal weeds have infested the fields. Incidence of jassids, aphids and whiteflies have been observed in some fields. No incidence of diseases reported so far.

Advisory

At Khandwa, farmers are advised to take up weeding on time. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyriothobac sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyriothobac sodium 6% + Quizalofop Ethyl 4%MEC @2-2.5 ml /litre of water to control both grassy and broadleaved weeds. Install pheromone traps @2 / acre to monitor pink bollworm. Give a split dose of Nitrogen @ 25% applied by column method at the depth of 10 to 15 cm. Apply NSKE 5%+ Neem oil 5 ml/litre or neem oil-based formulations (300 or 1500 ppm) 5 ml/litre + 1.0 g laundry detergent emulsion to control sucking pests. If parawilt is observed, apply 2-3 drenching with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP @ 100 g plus Urea 2 kg per 100 litres of water at one-week interval starting immediately after symptom development. In case of a long dry spell, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water during the peak fruiting stage at 7 to 10 days interval. Go for foliar spray of NAA @ 4 ml /10 lit of water to avoid natural shedding of flowers of cotton.

MAHARASHTRA		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Dhule								0.1	0	0	0	0
	Nandurbar								0	0	0	0	0
	Jalgaon	0	0	0	0	0	0	0	0	0	0	0	0
	Ahilyanagar	0	0	17.5	0	0	0		2.9	0.6	0.1	0	0
	Ch. Sambhaji Nagar	0	0	0.2	0	0	0	0	0.2	0.1	0	0	0
	Jalna	0	0	0	0	0	0	0	0.1	0	0	0	0
	Beed								0.4	0.1	0	0	0
	Nanded								0.2	0	0	0	0
	Parbhani	0	0	0	0	0	0	0	0.1	0	0	0	0
	Hingoli								0	0	0	0	0
	Buldhana	0	9	17	0	0	0	0	0.1	0	0	0	0
	Akola	0	0	1.8	0	3	0	0	0.2	0	0	0	0
	Washim	0	0	13	0	0	0	0	0.2	0	0	0	0
	Amravati	0	0	0	0	0	0	0	0.2	0	0	0	0
	Yavatmal	0	2	0	2	0	0	0	0.3	0	0	0	0
	Wardha	0	3	0	0	0	0	0	0.2	0	0	0	0
	Nagpur	0	0	0	0	2.6	0	0	0.1	0	0	0	0
	Chandrapur	0	15	25	3	1	0	0	0.1	0.1	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

At Akola, the sown crop is 92 to 97 days old at flowering and boll development stages. Intercultural operations, insecticides/ fungicides/ PGR and soluble fertilizers sprays were done. The crop growth has been stunted due to moisture stress since the last 55 days. Almost all the fields are weed free as hoeing and weeding operations were completed during the dry spell and

low rainfall. Heavy infestations of sucking pests like whitefly and thrips were noticed in most of the fields. The infestation of spotted bollworm on non *Bt* cotton and pink bollworm was also observed in some cotton fields.

At Rahuri, the sown irrigated cotton crop is 85 to 120 days at flowering, boll formation, boll development and bursting stages based on the time sown. Irrigation, hoeing, weeding, spraying and fertilizer application were done. Weeds have infested the fields. Thrips and aphids incidence were below ETL but jassid incidence has crossed ETL in many fields. *Mylocerus* weevil 0-1 % cotton plants damaged. Pink bollworm was recorded in rosette flowers. TSV and parawilt have been recorded in many fields.

At Nanded, the sown crop is 81 to 106 days at square formation to boll formation stage. Intercultural operations, weeding, fertilizer application and plant protection sprays were done during the reporting period. Grassy, broad-leaved weeds and sedges have infested the fields. Jassids and aphids incidence were noticed but below ETL. No incidence of diseases..

Advisory:

At Akola, farmers are advised to open the furrows in the cotton field for moisture conservation purposes at 45-50 DAS. Carry out intercultural operations like hoeing and weeding in cotton. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyrethiobac sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethiobac sodium 6% + Quizalofop Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Apply first split of 40 Kg Nitrogen (90 Kg Urea per ha) for irrigated hybrid cotton and 45 Kg N (97 Kg urea per ha) for rainfed hybrid/hirsutum cotton as top-dressing dose of chemical fertilizer. Apply NSKE 5% + Neem oil 5 ml/litre or neem oil-based formulations (300 or 1500 ppm) 5 ml/litre + 1.0 gm laundry detergent emulsion to control sucking pests like aphids, jassids and thrips, and also to repel pink bollworm females from ovipositing on cotton squares. To monitor pink bollworm, install 2 pheromone traps per acre for surveillance purposes in the field. Observe 20 plants per acre as a representative of the cotton field for pest infestation. If parawilt is observed, apply 2-3 drenching with solution of Copper oxychloride 50 % WP @ 250 g or Carbendazim 50% WP @ 100 g plus Urea 2 kg per 100 litres of water at one-week interval starting immediately after symptom development. In Fusarium wilt and Macrophomina root rot affected areas, farmers are advised to uproot the infected plants and destroy them immediately to prevent the spread of disease. Drench the surrounding plants with Carbendazim 50% WP @ 1.2 g/L of water to prevent further spread. This should be followed by two drenches of *Trichoderma harzianum* or *T. viride* @ 5 g/litre of water at 15-day intervals. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40-45 day crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA 4.5 SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton.

At Rahuri, farmers are advised to apply a second split dose at 60 DAS. Keep the crop weed-free by hand hoeing or intercultural operations with a tractor or bullock operated implements. Remove Parthenium weed from the field and field bunds so as to avoid or to minimize TSV and thrips incidence. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyrethiobac sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethiobac sodium 6% + Quizalofop Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Monitor the fields to keep a check on the infestation of sucking pests. Install yellow sticky traps, spray homemade neem seed kernel extract (NSKE) 5% or Azadirachtin 10000 ppm 10 ml/10 litres of water. In cotton crops above 60 DAS, if sucking pests cross ETL, spray Flonicamid 50 WG 2 g/10 litre water or Buprofezin 25 SC @ 20 ml /10 litres of water. Install pheromone traps @ 5 /ha to monitor pink bollworm and collect and destroy the rosette flowers along with PBW larvae at regular intervals to avoid further generation of pink bollworm. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40-45 day old crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA 4.5 SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton. Farmers having closer spacing (90 x 30 cm) cotton but not willing to spray PGR can go for removal of monopodia at 45 days after sowing and detopping at 75 to 80 days. If parawilt is observed, apply 2-3 drenching with solution of Copper oxychloride 50 % WP @ 250 g Or Carbendazim 50% WP @ 100 g plus Urea 2 kg per 100 litres of water at one week interval starting immediately after symptom development. Monitor the crop to avoid transmission of Tobacco Streak Virus (TSV) disease. Install blue sticky traps @20/ha to monitor and 100/ha for management of thrips. Uproot and destroy

TSV infected plants to avoid spread of the disease and strictly follow field sanitation, particularly removal of *Parthenium* weed in and around the cotton fields and recommended management practices for thrips. Manage thrips (>ETL) incidence with recommended use of insecticides.

At Nanded, farmers are advised to take up intercultural operations and weeding to manage weeds. Give protective irrigation as per availability under moisture stress situations. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyrethiobac sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethiobac sodium 6% + Quizalofop Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Give top dressing of Nitrogen @ 60 kg per ha to irrigated crops at 60 DAS whereas Nitrogen @ 48 kg/ha at 30 DAS to rainfed crop by drilling or ring method. Avoid broadcasting urea. Spray growth retardant, Mepiquat Chloride 5 % @ 500 ml/ha, at square formation stage in *Bt* cotton planted under HDPS and closer spacing cotton fields. Give foliar spray of NSKE 5% to manage sucking pests at 30 DAS. In crops of > 60 DAS, go for foliar application of Buprofenzin 20 SC @ 1000 ml /ha or Dinotefuron 20 SG @ 150 g per ha to manage sucking pests once it crosses ETL. Field and field bunds should be kept weed free and *Parthenium* weed should be removed in and around the fields to minimize the thrips population build-up and TSV incidence. If parawilt is observed, apply 2-3 drenching with solution of Copper oxychloride 50 % WP @ 250 g or Carbendazim 50% WP @ 100 g plus Urea 2 kg per 100 litres of water at one-week interval starting immediately after symptom development. For the management of leaf spots and boll rot, foliar sprays of (Carbendazim 12%+Mancozeb 63% WP) @ 30 g or Propiconazole 25% EC @10 ml or (Azoxystrobin 18.2% w/w+Difenoconazole 11.4% w/w SC) @ 10 ml or (Fluxapyroxad 167g/l + Pyraclostrobin 333 g/l SC) @ 6 ml in 10 litres of water is recommended. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40–45 day old crop or at square initiation and second spray after 15-20 days @1.0 ml/litres of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA 4.5 SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton..

TELANGANA		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Adilabad	0	0	2	0	0	0	0	0.2	0	0	0	0
	Warangal	0	0	64	3	3	0	0	0.1	0	0	0	0
	Khammam	0	4	104	12	0	0	0	0.2	0	0.2	0.2	0.4
	Karimnagar	0	0	20.5	15	4.2	0	0	0.1	0	0	0	0
	Mahabubnagar	0	2	45	0.2	0	0	0	0.2	0.1	0	0	0
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

At Adilabad, the sown crop is at 88 to 93 days at flowering to boll development stage. Inter cultural operations, weeding, insecticide and foliar sprays were given during the reporting period. Thrips and jassid incidence were observed in most of the fields above ETL. Boll rot was observed in few fields. No incidence of diseases.

At Warangal, the crop is 98 to 109 days old at flowering to boll development stage. Application of Nitrogen (25 kg of Urea/acre) and Potassic (10 kg MOP/acre) fertilizer was taken up. Weeds have infested the fields. Thrips, aphids and jassids were noticed above ETL. No incidence of disease.

Advisory:

At Adilabad, farmers are advised to take up periodical hoeing for moisture conservation and weed control. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml/litre of water if the field is infested with grassy weeds or Pyrethiobac sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethiobac sodium 6% + Quizalofop Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broadleaved weeds. Give prophylactic spray of neem based insecticide @ 5 ml per litre of water at 45 DAS to control sucking pests and deterring pink bollworm females from egg laying on newly formed squares. If the population of sucking pests exceeds ETL, give a spray of Flonicamid 50 WG @ 0.4 g per litre of water. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40–45 day crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering

from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA 4.5 SL@ 4 ml /10 litres of water to avoid natural shedding of squares and flowers of cotton. Monitor the crop to avoid transmission of Tobacco Streak Virus (TSV) disease. Install blue sticky traps @20/ha to monitor and 100/ha for management of thrips. Uproot and destroy TSV infected plants to avoid spread of the disease and strictly follow field sanitation, particularly removal of Parthenium weed in and around the cotton fields and recommended management practices for thrips. Manage thrips (>ETL) incidence with recommended use of insecticides.

At Warangal, prevailing dry spell conditions reduces the soil moisture availability and uptake of nutrients by plants and shows wilting symptoms. To minimize the effect, farmers are advised to take up foliar spray of 2% Urea or 1% Potassium nitrate solution on crop plants. Provide one life-saving irrigation at flowering and boll development stage under limited irrigation water facility condition. Give top dressing of Nitrogen (25 kgs of Urea/acre) and Potassic (10 kgs MOP/acre) fertilizers at 40,60 and 80 DAS after receipt of rains in rainfed crops with sufficient moisture. With respect to weed control, in case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quizalofop ethyl 5% EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyriothobac sodium 10% EC @1.5 ml/litres of water for broad leaved weeds or Pyriothobac sodium 6% + Quizalofop Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Prophylactic spray of neem based insecticide @ 5 ml per litre of water at 45 DAS may be given for controlling sucking pests and deterring pink bollworm females from egg laying on newly formed squares. If the population of sucking pests exceeds ETL, spray Flonicamid 50 WG @ 0.4 or Diafenthiuron 50 WP @ 1.25 g or Dinotefuron 20 SG @ 0.4 g per litre of water from 60 DAS onwards. Install yellow- and blue-coloured sticky traps (10 each per acre) as a preventive measure to monitor and control the sucking pest complex. Dry conditions are favourable for the infestation of pink bollworm. So, monitor the infestation of the pest by installing pheromone traps (2 No./Acre) in the cotton fields. Farmers who adopted High Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40-45 day crop or at square initiation and second spray after 15 20 days @1.0 ml/litre of water. The crop is suffering from moisture stress due to prolonged dry spell. So, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. Go for foliar spray of NAA 4.5 SL@ 4 ml /10 litres of water to avoid natural shedding of flowers of cotton. Monitor the crop to avoid transmission of Tobacco Streak Virus (TSV) disease. Install blue sticky traps @20/ha to monitor and 100/ha for management of thrips. Uproot and destroy TSV infected plants to avoid spread of the disease and strictly follow field sanitation, particularly removal of Parthenium weed in and around the cotton fields and recommended management practices for thrips. Manage thrips (>ETL) incidence with recommended use of insecticides.

ANDHRA PRADESH		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Guntur	0	0	32	2	0	0	0	0.1	0	0.2	1	2.2
	Prakasam	27.8	14	17	3.2	0	0	0	0.2	0.1	0	0.2	0.4
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

At Guntur, the crop is 60 to 67 days from flowering to boll formation stage. Intercultivation and weeding operations were completed in the cotton fields to ensure proper crop growth. Excess rainfall was received during the week due to which excess water from the field was drained off to avoid wilting of the plants.. Incidence of leafhoppers was above ETL. No incidence of disease reported so far.

At Nandyal, the sown crop is 80 to 113 days old at flowering and boll development stages. The majority of early sown area under less moisture conditions is exhibiting wilting and moisture stress symptoms. First to third picking is in progress Top dressing of fertilizer application and intercultural operations were taken up during the reporting period. Infestation of sucking pests were recorded around ETL in most of the locations. Pink bollworm infestation was also noticed at few fields..

Advisory

At Guntur, farmers are suggested not to take up further sowings. In an already sown crop which is about 20-30 days old and if sufficient moisture is available, apply post emergence application of Pyrethrin Sodium 6% + Quinalofop Ethyl 4% @ 400 ml/acre. Give basal application of P_2O_5 @ 60 kg/acre and 50 kg N and 20 Kg K_2O per acre within 30 DAS. Give foliar spray with 19:19:19 or 13:0:45 @ 1% per liter of water. Spray Thiamethoxam 25% WG @ 0.2g/lit or Fipronil 5% SC @ 2.0 ml/lit of water to control sucking pests. Monitor the crop to avoid transmission of Tobacco Streak Virus (TSV) disease. Install blue sticky traps @20/ha to monitor and 100/ha for management of thrips. Uproot and destroy TSV infected plants to avoid spread of the disease and strictly follow field sanitation, particularly removal of *Parthenium* weed in and around the cotton fields and recommended management practices for thrips. As a prophylactic measure against sucking pests and to check the initial pink bollworm infestation, spray neem-based insecticides at 1 litre per acre using 200 litres of water.

At Nandyal, farmers are advised to go for a spray of Urea or 13-0-45 @ 10 g/lit of water to tide over temporary dry spells. To manage sucking pests, spray neem oil @ 1 litre per acre (in 200 litres of water). Once it goes beyond ETL, give a spray of Imidacloprid @ 0.4 ml or Acetamiprid @ 0.2g per lit of water. Remove weeds on the bunds to avoid transmission of TSV virus. If pink bollworm crosses ETL, spray Profenophos @500 ml/acre using 200 litres of water. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40–45-day crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA @ 4 ml /10 lit of water to avoid natural shedding of squares and flowers of cotton. Monitor the crop to avoid transmission of Tobacco Streak Virus (TSV) disease. Install blue sticky traps @20/ha to monitor and 100/ha for management of thrips. Uproot and destroy TSV infected plants to avoid spread of the disease and strictly follow field sanitation, particularly removal of *Parthenium* weed in and around the cotton fields and recommended management practices for thrips. Manage thrips (>ETL) incidence with recommended use of insecticides. Do not extend the crop beyond 150 DAS.

KARNATAKA		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Dharwad	0	0	2.2	5	0	0	0	8.3	6.8	2.7	0	0
	Haveri	0	0	0	0	0	0	0	6.3	5.2	3.9	0.8	0.2
	Mysore	0	0	0	0	4	0	0	6	11	19	2.5	1.9
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm			64.5 to 115.5 mm		115.6 to 204.4		
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall			Heavy rainfall		Very heavy rainfall		

Crop Condition:

At Dharwad, the crop is 85 to 90 days from flowering to boll formation stage. Hand weeding, inter cultivation for weed management, insecticides and foliar spray were taken up. Weeds infestation was noticed in certain fields. Shoot weevil, leaf hopper and aphids have infested the fields in low status but thrips in moderate status. *Alternaria* blight disease was reported from low to moderate status in certain fields.

At Raichur, the sown crop is 94 days old at squaring to flowering stage. Non receipt of rainfall is resulting in withering of cotton plants with various magnitudes, though the early sown crop is relatively tolerant to the prevailing moisture stress. Overall, about 25–30 per cent of the cotton area is under irrigation. Intercultivation operation has been taken up along with sprays for sucking pest control. Field observations revealed the incidence of weeds, insect pests and diseases at varying levels. Farmers were advised to undertake timely and need-based management measures based on the incidence observed, following recommended crop protection practices

At Chamarajanagar, the crop is 114 to 129 days from boll development to boll opening stage. Picking is in progress. Incidence of leaf hopper – (02-03/3 leaves), aphids – (10-20/3 leaves) and PBW incidence below 5-10% were recorded. No incidence of diseases.

Advisory:

At Dharwad, farmers are advised to take up hand weeding and intercultural operations to manage weeds. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quinalofop ethyl 5% EC @ 2ml /litre of

water if the field is infested with grassy weeds or Pyrethrin sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethrin sodium 6% + Quinalphos Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds. Do hand collection of shoot weevils from the okra as a trap crop. Apply Phosphorous and Potash by ring method. Apply Salicylic Acid @100 ppm spray for a 75 days old crop. Spray neem based insecticide @ 5.0 ml per litre of water to manage sucking pests. After 60 DAS of crop age, spray Flonicamid 50 WG @0.4g per litre or Diafenthiuron 50 WP @ 1.2 g per litre of water to manage sucking pests if crosses ETL. Install pheromone traps @ 2 /acre to monitor pink bollworm moth activity. Destroy rosette flowers with PBW larvae. Farmers who adopted High-Density Planting System (90 x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40–45-day crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA @ 4 ml /10 lit of water to avoid natural shedding of squares and flowers of cotton.

At Raichur, farmers are advised to take up weeding and intercultivation on priority basis to avoid the land getting dried up. In case of moist soil condition where manual weeding is not possible, go for application of herbicides like Quinalphos ethyl 5%EC @ 2 ml /litre of water if the field is infested with grassy weeds or Pyrethrin sodium 10% EC @1.5 ml/litre of water for broad leaved weeds or Pyrethrin sodium 6% + Quinalphos Ethyl 4% MEC @2-2.5 ml /litre of water to control both grassy and broad-leaved weeds when the crop is at 25-30 days duration. Spray the recommended dose of Flonicamid 50% WG (4g/ 10 litres of water) against sucking pest populations that exceed ETL. Spray Profenophos 50 EC @ 2.5 ml or Imidacloprid 17.8 SL @ 0.3 ml per litre of water to control mealy bug infestation. Farmers who adopted High-Density Planting System (90x 15 cm) or closer spacing (90 x 30 cm) cotton have to go for spray of plant growth regulator (PGR) Mepiquat chloride 5% AS @1 ml/litres of water at 40–45-day crop or at square initiation and second spray after 15-20 days @1.0 ml/litre of water. If the crop is suffering from moisture stress due to prolonged dry spell, avoid spray of Mepiquat chloride. Alternatively, give foliar spray of 13:00:45 @ 2 kg per acre in 200 litres of water. If square drop is observed, go for foliar spray of NAA @ 4 ml /10 lit of water to avoid natural shedding of squares and flowers of cotton. Spray Profenophos 2 ml + Imidacloprid 0.5ml + 2 shampoo per tank to control mealy bug infestation.

At Chamarajanagar, farmers are advised to install yellow sticky traps @ 8-12 per acre and pheromone traps, change of lures @ 15 days interval to monitor sucking pests. Spray Flonicamid 50% WG 0.4 ml /lt of water or Dinotefuran 20 SG @ 0.3 gm/lt of water and Imidacloprid 17.8 SL @ 0.5 ml /lt of water to control sucking pests above ETL. Spray Profenophos 50 EC @ 500 ml per acre or Emamectin benzoate 5SG @100 gm per acre or Indoxacarb 15 EC @ 200 ml per acre, if the incidence of pink bollworm is above 5 per cent (ETL) in flowers or green bolls. If the crop is above 120 days and incidence of pink bollworm is above ETL, spray Cypermethrin 10% EC @ 10-15 ml/10 lit of water or Deltamethrin 2.8 EC @ 10 ml/10 lit of water or Fenpropathrin 10% EC @ 10 ml/10 lit of water.

TAMIL NADU		Actual Rainfall in last week(mm)							Predicted Rainfall in next week (mm)				
		September							September / October				
		23	24	25	26	27	28	29	30	01	02	03	04
	Perambalur	0	0	0	0	0	0	0	13	11	6.4	0.7	1.8
	Salem	0	0	0	0	0	0	0	9.6	15	12	2	3
	Trichy								11	11	8.5	2.3	2.1
	Virudhunagar	0	0	0	0	0	0	0	3.6	9	12	4	2
Amount of rainfall & colour Code		0.1 to 2.4 mm		2.5 to 15.5 mm		15.6 to 64.4 mm		64.5 to 115.5 mm		115.6 to 204.4 mm			
Rainfall category		Very light rainfall		Light rainfall		Moderate rainfall		Heavy rainfall		Very heavy rainfall			

Crop Condition:

At Coimbatore and surrounding areas, the sown crop is at vegetative stage. Weeding has been carried out. Earthing up has been done. Spot drenching with Carbendazim @ 1 g/l at the base of affected plants as well as surrounding healthy plants has been done to manage the soil borne (root rot and wilt) diseases. Sucking pest infestation has been noticed in few fields. Root rot severity (up to 10%) and stem weevil (up to 10%) infestation have been recorded.

At Srivilliputhur and surrounding areas, the sown crop is 24 to 34 days old at initial vegetative growth stage. Sowing of cotton crop has been completed in the district. Applied pre-emergence herbicide and still in progress in some places wherever sufficient moisture is available in the soil at the time of herbicide application. Thinning has been done. Weeds have infested the cotton fields but controlled through recommended measures. Thrips and leaf hopper incidence were noticed in the fields. No incidence of diseases

Advisory

At Coimbatore and surrounding areas, farmers are advised to carry out earthing up at the earliest to avoid stem weevil infestation. Prioritize irrigation due to prevailing high temperatures. Regularly monitor the crop for incidence of pests and diseases to adopt timely management. The root rot severity may be aggravated (up to 10%) due to prevailing high temperature hence, take up spot drenching with Carbendazim @ 1 g/l at the base of affected plants as well as surrounding healthy plants or soil application of *Trichoderma viride* and *Bacillus subtilis* @ 2.5 kg/ha along with 500 kg well decomposed FYM..

At Srivilliputhur, farmers are advised to utilize the available moisture for herbicide application if possible. Remove cotton stalks after harvest to prevent the carry over life stages of stem weevil. Clean the farm bunds and other premises to destroy the alternate host of insect pests such as *Abutilon* and other grassy weeds. In stem weevil endemic areas, give seed treatment with Chlorpyrifos 20EC @ 10ml/kg of seed + drenching collar region with Chlorpyrifos 50 EC @ 1200 ml/ha on 15 DAS. Take up thinning in the sown crop fields. Apply blanket recommendation for cotton crop (variety) is 60:30:30 kg/ha (N:P:K). If basal application could not be done, apply 50 per cent of N and K full dose of P_2O_5 on 25 DAS. Hoeing and hand weeding should be completed between 18th to 20th DAS, if herbicide is not applied at the time of sowing the crop. Remove other malvaceous crops in the vicinity of the cotton crop. To manage thrips and leafhopper, spray Flonicamid 50% WG @ 150 g/ha or Thiamethoxam 25%WG 100 g/ha. Drench the collar region with Chlorpyrifos 50 EC @ 1200 ml/ha on 15 and 30 days after sowing along with earthing up operations.

The detailed information regarding cotton production technology, e.g., selection of soil, varieties, fertilizer application, sowing methods, irrigation systems, management of weeds, insect pests and diseases, etc., can be availed from an Android-based **CICR Cotton App** developed by ICAR-CICR, Nagpur. The app can be downloaded free of cost from Google Play Store. Additionally, the crop growth stage-specific and weather-based weekly advisories are uploaded on the website of ICAR-CICR (<https://cicr.org.in/resource-weekly-advisory>) also to be consulted for the benefit of farmers.

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