

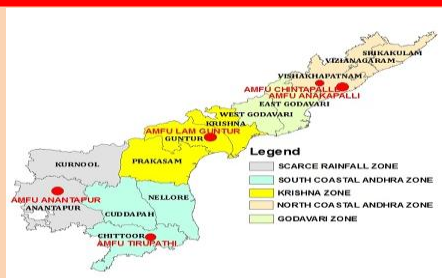
भारत सरकार
भारत मौसम विज्ञान विभाग
राज्य कृषि-मौसम विज्ञान केंद्र
हैदराबाद -500 016



Government of India
India Meteorological Department
State Agro-Meteorological Centre,
Hyderabad- 500 016

COMPOSITE AGRO-METEOROLOGICAL ADVISORY SERVICE

BULLETIN FOR THE STATE OF ANDHRA PRADESH



ISSUED ON 16.10.2018

BULLETIN NO: 083

From the period (17-10-2018 to 21-10-2018)

(5 days from Wednesday to Sunday)

State Agro-meteorological Services Center (SAMC), Hyderabad

राज्य कृषि-मौसम विज्ञान केंद्र

Six Agro-climatic Zones of Andhra Pradesh (high altitude zone not shown)

Agro-climatic Zone	Districts	In-charge stations
North Coastal	Srikakulam, Vizianagaram &	RARS, Anapalle
South Coastal	Nellore, Chittoor & Kadapa	RARS, Tirupathi
Godavari	East & West Godavari	RARS, Chintapalle
Krishna	Guntur, Krishna & Prakasam	RARS, Guntur
Scarce Rainfall	Anantapur & Kurnool	RARS, Anantapur
High Altitude	Srikakulam, Vizianagaram,	RARS, Chintapalle

Part A: Weather

A.1. Synoptic situation during last 4 days from 12.10.2018 to 15.10.2018

12.10.2018: The Deep Depression over Odisha moved eastnortheastwards in past six hours with a speed of 13 kmph, and lay centred at 0830 hrs IST of today, the 12th October 2018 over Odisha near latitude 20.6°N and longitude 84.9°E, 60 km eastnortheast of Phulbani and 30 km southwest of Angul. It is very likely to move northeastwards towards Gangetic west Bengal and weaken into a depression during next 06 hours. A trough runs from the Deep Depression to Kerala across Coastal Andhra Pradesh and Tamilnadu and extends upto 3.1 km above mean sea level.

13.10.2018: Yesterday's Well marked low pressure area over Gangetic West Bengal and neighbourhood weakened further into a low pressure area and lay over Gangetic West Bengal and adjoining Bangladesh & north Bay of Bengal at 0830 hrs IST of today, the 13th October 2018. A trough runs from the Low Pressure area over Gangetic West Bengal to south Tamilnadu across Coastal Andhra Pradesh and extends upto 0.9 km above mean sea level.

14.10.2018: A trough extends from Odisha to south Tamilnadu across Coastal Andhra Pradesh extending up to 0.9 km above mean sea level. The Upper Air cyclonic circulation seen yesterday off Coastal Karnataka and adjoining Goa now lies over North Interior Karnataka & neighbourhood between 1.5 and 4.5 km above mean sea level.

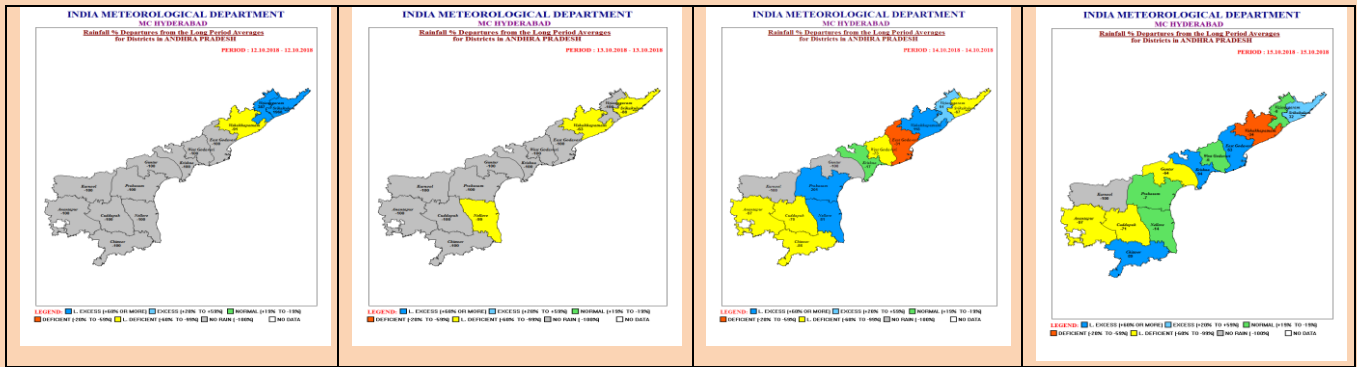
15.10.2018: The cyclonic circulation over North Interior Karnataka & neighbourhood persists and now extends up to 0.9 km above mean sea level. An upper air trough runs from South Tamilnadu to North Interior Karnataka at 1.5 km above mean sea level. The trough from Odisha to south Tamilnadu across Coastal Andhra Pradesh extending up to 0.9 km above mean sea level has become less marked

A.2. Realized Rainfall distribution during last four days from 12.10.2018 to 15.10.2018

Coastal Andhra Pradesh	12.10.2018	13.10.2018	14.10.2018	15.10.2018
SW Monsoon	Weak	Weak	Weak	Normal
Rain	Isolated places	Isolated places	Few places	Few places

Rayalaseema	12.10.2018	13.10.2018	14.10.2018	15.10.2018
SW Monsoon	Weak	Weak	Weak	Normal
Rain	Dry Weather	Dry weather	Isolated places	Isolated places

A.3 Rainfall Distribution for the Period of 12.10.2018 to 15.10.2018 (for four days)



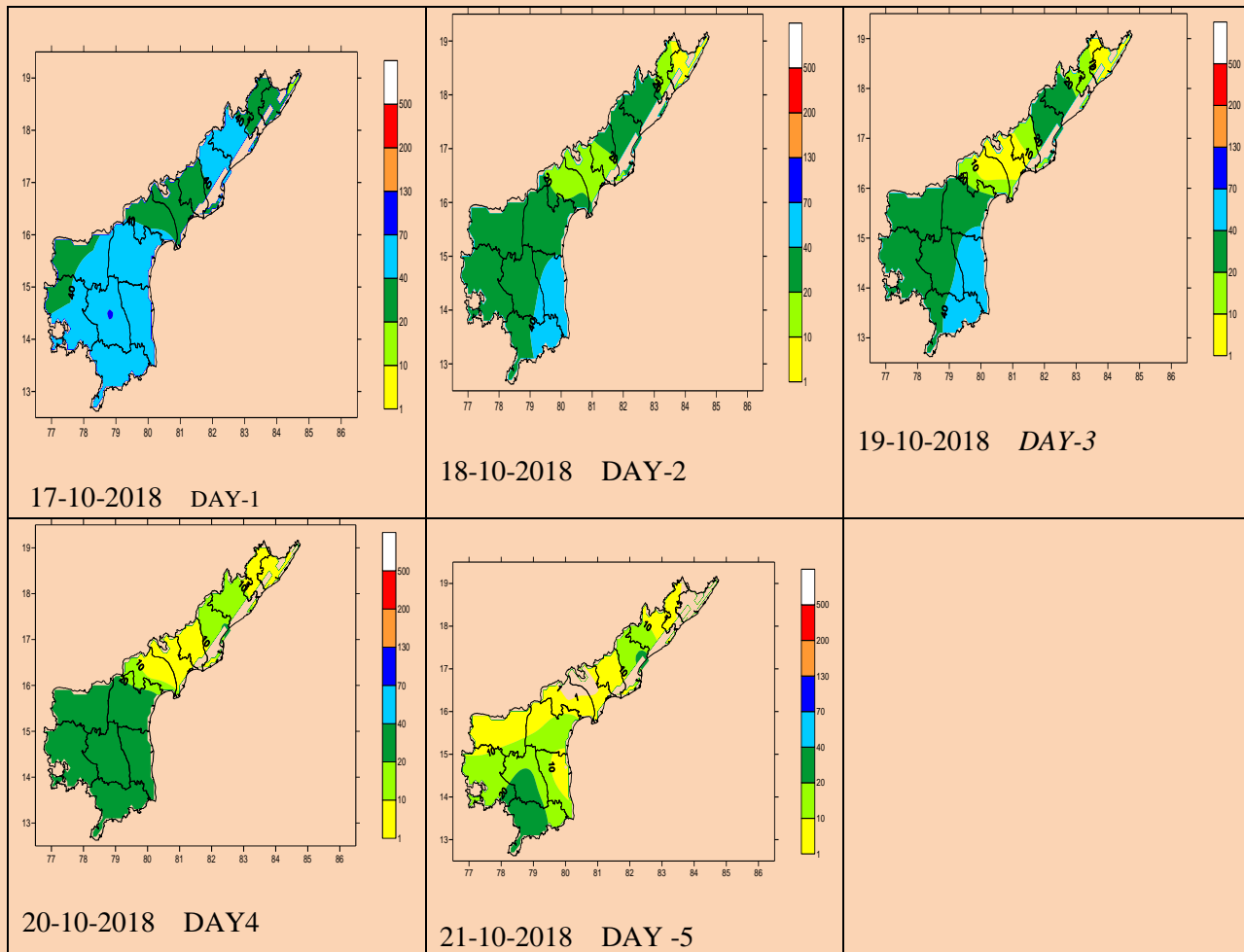
A.4 Description of Past Weather for the last Four days (12.10.2018 to 15.10.2018)

WEATHER PARAMETER	Coastal Andhra Pradesh	Rayalseema
Max Temperature (deg C):	31°C - 37°C	35°C - 37°C
Dep from normal	Appreciably above normal at one or two places	Appreciably above normal
Min Temperature (deg C):	24°C - 28°C	23 °C - 25°C
Dep from normal	Above Normal at one or two places.	Above Normal at one or two places.
Total cloud cover (Okta):	4-7	3-5
Max Relative Humidity (%)	63-82	67-71
Min Relative Humidity (%)	49-81	32-49
Wind Speed (Kmph):	1-5	1-4

A.6 Weather parameters distribution for the next five days in range (Period 17.10.2018 to 21.10.2018)

ZONES	N.COASTAL	GODAVARI	KRISHNA	SOUTHERN	SCARCE RAINFALL
Rainfall(mm)	72-0	40-0	52-0	72-23	40-12
TempMax(°C)	35.7-34.5	34-32.2	34.5-33.5	35.5-34.2	34.2-33.5
TempMin(°C)	25.2-24.2	25-24.2	26.2-25.2	25.6-24.8	23.2-22.5
HumidityI(%)	94-85	88-82	88-84	88-82	88-85
HumidityII(%)	75-65	72-58	70-62	67-64	66-58
WindSpeed(m/s)	2-1.6	1.6-1.2	2.6-1.7	2.9-2	3-1.3
WindDirection(degree)	356-346	318-260	122-80	264-180	185-107
CloudCover(octa)	8-3	8-4	8-7	8-7	8-7

A.7 Rainfall distribution for the next five days (Period 17.10.2018 to 21.10.2018)



PART B

Detailed District/Zone wise Agro met Advisories

AGRO METEOROLOGICAL ADVISORY FOR SRIKAKULAM DISTRICT, A P

Crop	Stage and condition of the crop	Problems / Pest and disease	Agro Advisory
Paddy	Tillering stage	Sheath blight	• Spray Propiconazole @ 1 ml/l or Hexaconazole @ 2 ml / l
		Leaf folder	• Spray Acephate @ 1.5 g/l or quinolphos @ 2 ml / l
		Trips	• Spray monocrotophos @ 1.6 ml / l.
Rainfed sugarcane	Formative Stage	-	• Apply muriate of potash @ 20 kg/ac and remove old dried lower leave and spread on ridges.

AGRO METEOROLOGICAL ADVISORY FOR VIZIANAGARAM DISTRICT, A P

Crop	Stage and condition of the crop	Problems / Pest and disease	Agro Advisory
Paddy	Tillering stage	Sheath blight	• Spray Propiconazole @ 1 ml/l or Hexaconazole @ 2 ml / l
		Leaf folder	• Spray Acephate @ 1.5 g/l or quinolphos @ 2 ml / l
		Trips	• Spray monocrotophos @ 1.6 ml / l.
Rainfed sugarcane	Formative Stage	-	• Apply muriate of potash @ 20 kg/ac and remove old dried lower leave and spread on ridges.

AGRO METEOROLOGICAL ADVISORY FOR VISAKHAPATNAM DISTRICT, AP

Crop	Stage and condition of the crop	Problems / Pest and disease	Agro Advisory
Paddy	Tillering stage	Sheath blight	• Spray Propiconazole @ 1 ml/l or Hexaconazole @ 2 ml / l
		Leaf folder	• Spray Acephate @ 1.5 g/l or quinolphos @ 2 ml / l
		Trips	• Spray monocrotophos @ 1.6 ml / l.
Rainfed sugarcane	Formative Stage	-	• Apply muriate of potash @ 20 kg/ac and remove old dried lower leave and spread on ridges.

AGRO METEOROLOGICAL ADVISORY FOR NELLORE DISTRICT, A P

S.No.	Crop	Stage of the crop	Problem	Remedial measures
1.	Paddy	Early rabi nurseries	Seed treatment fertilizer application and weed management	<ul style="list-style-type: none"> • Farmers who are taking up early rabi nurseries are advised to go for seed treatment with carbendizum @ 1gm/Kilo seed. • For 5 cent of nursery area apply 2 kg Nitrogen(1kilo at the time of sowing seed and another kilo at 12-14 days), 1 kilo phosphorous and 1 kilo potash. • After 14-15 days spray clincher (Cyalo-fop butyl) @ 2ml/lt. of water. • After transplanting paddy at 12-15 days spray carbofuran granules 160gm per cent to control various pests.
	Nurseries			Drain out the excess water from the nurseries.
2.	Paddy harvests/sowing of paddy with drum seeder and spraying of pesticides			As there is rain forecast and cloudy weather farmers who are ready to take up paddy harvestings, sowing of paddy with drum seeder and spraying of pesticides are advised to monitor the weather and postpone the works for until clear weather.
3.	Groundnut		Late leaf spot	<ul style="list-style-type: none"> • To control spray hexaconazole @ 2 ml./L of water.
			Stem rot	<ul style="list-style-type: none"> • The present weather conditions are favourable for stem rot in groundnut. To control spray hexaconazole @ 2 ml./L of water.
4.	Redgram and other pulses	Bud stage	Maruca and Helicoverpa	As there is rain forecast in many areas of the district there is possibility of incidence of maruca and helicoverpa insect attack in red gram and other pulses. To control spray neem oil @ 5 ml./lt. or chloripyriphos @ 2ml + nuvon @ 1 ml./lt. of water at egg stage.
5.	Sugarcane	Grand growth stage	Lodging	<ul style="list-style-type: none"> • As there is rain forecast in the district do propping to prevent lodging. • To control pyrrilla purpusella

				spray monocrotophos @ 1.6 ml./L of water.
6.	Vegetable crops	Flower to pod stage	Pod borer	To control spray chloripyriphos @2 ml. / L of water.

AGRO METEOROLOGICAL ADVISORY FOR CHITTOOR DISTRICT, A P

Sl.No.	Crop	Stage of the crop	Problem	Remedial measures
1.	Groundnut	Pod stage	Late leaf spot	<ul style="list-style-type: none"> To control spray hexaconazole @ 2 ml./L of water.
			Stem rot	<ul style="list-style-type: none"> The present weather conditions are favourable for stem rot in groundnut. To control spray hexaconazole @ 2 ml./L of water.
2.	Paddy	Transplanting to tillering stage	Leaf folder and Stem borer	The present weather conditions are favourable for leaf folder and stem borer attack in paddy. To control spray Chloripyriphos @ 2.5 ml. or cartaphydrochloride @ 2g or rhynoxypyr @ 0.3 ml./L of water.

AGRO METEOROLOGICAL ADVISORY FOR KADAPA DISTRICT, A P

Crop	Stage of the crop	Problem	Remedial measures
Groundnut		Leaf spot and stem rot	To control spray hexaconazole @ 2 ml. (or) carbendizem @ 1 g + mancogeb @ 2.5 g/L. of water.
	Harvesting stage	Seed storage	<ul style="list-style-type: none"> Farmers who are harvesting summer groundnut are advised to harvest when 80% of the leaves turn yellow and the color inside the shell turns black. Shade dry the pods so as to keep the moisture in the seeds at 8 to 9% and store in plastic bags.
		Late leaf spot	<ul style="list-style-type: none"> To control spray hexaconazole @ 2 ml./L of water.
Paddy	Transplanting stage	BPH	<ul style="list-style-type: none"> Farmers who are sowing paddy in this month should leave 20 cm pathways for every 2 mt. Drain the field which is infested and spray buprofigin @ 1.6 ml./L or ithophenprox @ 2 ml./L of water.

Black gram	Vegetative stage	Flea beetles	To control spray chloripyriphos @ 1.5 ml./lt. of water.
Castor	Fruit stage	Powdery mildew	To control spray carbandigem @ 1g./lt. of water.
Cotton	Pod stage – Harvesting stage	White fly	To control spray trizophos @ 2 ml./L of water.
	40 days crop	Jassid	To control spray fipronil @ 2 ml./L of water.
Turmeric	Rhizome formation stage	Leaf blotch	To control spray propiconazole 1 ml./L of water.
Brinjal and Bendi	Flowering to Pod stage	Pod borer	To control spray chloripyriphos @ 2 ml./L of water.

AGRO METEOROLOGICAL ADVISORY FOR WEST GODAVARI DISTRICT, A P

Name of Crop	Stage/ Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
Paddy	Active tillering	Leaf folder	➤ Spray profenophos 50 EC @400 ml/ac or Chloropyriphos 20 EC @ 500 ml/ac or monocrotophos 36 SL @ 320ml/ac
Sugar cane	Vegetative stage	Mealy bugs	<ul style="list-style-type: none"> • To overcome the problem spray malathion @600 ml/ac or dimethoate @340ml/ac • Sugarcane is at vegetative to ripening stages Under present weather white mite due to water logging may dominate and infects the crop This can be managed by spraying with malathion @ 3 ml or endosulphon @ 2 ml per liter of water

Maize	Tasseling stage	Fall army worm	➤ For the control of the fall armyworm spray chlorantriliniprole (coragen) @60ml/ac or Emamectin benzoate@80 gm/ac
Rabi pulses	Advises for coming Seasonal		➤ As the season at to begin, hence upland farmers are advised to go for ploughing with the help of recent rains, remove the crop stubbles, clean the field and suggested varieties for the district are Blackgram:LBG-752, LBG-20, T-9, LBG-623, PU-31, LB-402, LBG-709 and LBG-787 and collect the good seed material from University or any recognized firm well in advance

AGRO METEOROLOGICAL ADVISORY FOR GUNTUR DISTRICT, A P

Name of Crop	Stage/ Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
BT-Cotton	Flowering stage	Mealy bugs	➤ For the control of Mealy bugs drench the affected plant stem with malathion@ 2.0 ml/lt or buprofrezin@ 2ml/ly or acephate@ 2 gm/lt along with sticky agent
		Sucking pest	➤ For the control of sucking pests spray monocrotophos 36 SL 320 ml/ac or Acephate 75SP@ 300gr/lt or Imida chloprid 17.8 SL@ 80 ml/ac or Fipronil 5SC @400 ml/ac

Paddy	Tillering stage	Hoppers	➤ The present weather condition hoppers may attach the crop It can be managed by the application boprophezis @ 1.6 ml or acepate 1.5 g or imadachloprid + athiprole 0.25 g of monochrotophos 2.2 ml or phimetrogen .6 g per liter of water
Red gram	Vegetative stage	Leaf folder	➤ Spray monocrotophos@ 320 ml/ac or quinolphos @ 200 ml/ac
Bajra	Grain formation to hardening stage	Moisture stress	➤ Due to deficit rainfall crop is facing moisture stress for effective management go for irrigation where ever the facilities are available
Rabi Pulses			➤ As the season at to begin, hence upland farmers are advised to go for plouging with the help of recent rains, remove the crop stubbles, clean the field and suggested verities for the district are Blackgram:LBG-752, LBG-20, T-9, LBG-623, PU-31, LB-402, LBG-709 and LBG-787 and collect the good seed material from reputed firms

AGRO METEOROLOGICAL ADVISORY FOR KRISHNA DISTRICT, A P

Name of Crop	Stage/ Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
BT-Cotton	Vegetative stage	Mealy bugs	➤ For the control of Mealy bugs drench the affected plant stem with malathion@ 2.0 ml/lt or buprofrezin@ 2ml/ly or acephate@ 2 gm/lt along with sticky agent

		Sucking pest	➤ For the control of sucking pests spray monocrotophos 36 SL 320 ml/ac or Acephate 75SP@ 300gr/lt or Imida chlopid 17.8 SL@ 80 ml/ac or Fipronil 5SC @400 ml/ac
Sugar cane	Vegetative stage	Early shoot borer	• To control the infestation of early shoot borer chlorantriliniprole @ 600ml/acre
		Whitefly, Scale insect, mealy bug	• To control the infestation of whitefly and scale insects spray dimethoate@ 340 ml/ac or malathion @ 400 ml/ac
Paddy	Active tillering to panicle	Hoppers	➤ The present weather condition hoppers may attach the crop It can be managed by the application boprophezis @ 1.6 ml or acepate 1.5 g or imadachlopid + athiprole 0.25 g of monochrotophos 2.2 ml or phimetrogen .6 g per liter of water
Maize	Tasseling stage	Fall army worm	➤ For the control of the fall armyworm spray chlorantriliniprole (coragen) @60ml/ac or Emamectin benzoate@80 gm/ac
Rabi pulses			➤ As the season at to begin, hence upland farmers are advised to go for ploughing with the help of recent rains, remove the crop stubbles, clean the field and suggested varieties for the district are Blackgram:LBG-752, LBG-20, T-9, LBG-623, PU-31, LB-402, LBG-709 and LBG-787 and collect the good seed material from University or any recognized firm well in advance

AGRO METEOROLOGICAL ADVISORY FOR PRAKASAM DISTRICT, A P

Name of Crop	Stage/ Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
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BT-Cotton	Flowering stage	Mealy bugs	➤ For the control of Mealy bugs drench the affected plant stem with malathion@ 2.0 ml/lt or buprofrezin@ 2ml/ly or acephate@ 2 gm/lt along with sticky agent
		Sucking pest	➤ For the control of sucking pests spray monocrotophos 36 SL 320 ml/ac or Acephate 75SP@ 300gr/lt or Imidachloprid 17.8 SL@ 80 ml/ac or Fipronil 5SC @400 ml/ac
Red gram	Vegetative stage	Leaf folder	➤ Spray monocrotophos@ 320 ml/ac or quinolphos @ 200 ml/ac
Maize	Knee height stage	Fall army worm	➤ For the control of the fall armyworm spray chlorantriliniprole (coragen) @60ml/ac or Emamectin benzoate@80 gm/ac
Bajra	Grain formation to hardening stage	Moisture stress	➤ Due to deficit rainfall crop is facing moisture stress for effective management go for irrigation where ever the facilities are available
Rabi ground nut	Sowing		➤ As the season at to begin Rabi ground nut sowings can be taken up with the recommended varieties Dharani, Greeshma, T.A.G-24, rohini, kadhiri-6, kadhiri-9, I.C.G.V 91114, kadiri harithandra, kadiri amaravathi
Rabi pulses			➤ As the season at to begin, hence upland farmers are advised to go for ploughing with the help of recent rains, remove the crop stubbles, clean the field and suggested varieties for the district are Blackgram:LBG-752, LBG-20, T-9, LBG-623, PU-31, LB-402, LBG-709 and LBG-787 and collect the good seed material from University or any recognized firm well in advance

AGRO METEOROLOGICAL ADVISORY FOR ANANTHAPURAM DISTRICT, A P

Groundnut

- Farmers are advised to postpone harvesting of groundnut crop or harvest the crop only on clear days. They are also advised to keep the harvested produce safely to avoid wetting in rains.
- Groundnut leaf miner incidence is observed in some parts of the division. For the control of leaf miner, farmers are advised to spray chloropyriphos@2.5 ml /l (or) flubendamide0.5 ml/l(or) monocrotophos1.6 ml/l of water.
- Farmers are advised to spray [Monochrotophos@1.6](#) ml/l or Imidacloprid 0.3ml/l or Dimethoate @ 2 ml/l for control of sucking pests in groundnut.
- Tikka leaf spot disease was observed in some parts of division. To control farmers are advised to spray Saaf 3g/l (Mancozeb 2g/l + carbandazim 1g/l) of water.

Rice

- BPH incidence is observed in some parts of district. To control BPH buprofezin 1.6ml/lit or ethofenpros @2.0 ml/lit is recommended and intermittent drying of field.
- Leaf folder incidence was noticed in few parts of the division. For the control spraying of chloripyriphos 2.5 ml+Dichlorovos @ 1ml/l or cartaphydrochloride @ 2 g/L of water.
- Stem borer incidence was observed in early stages of transplanted rice in the district. For controlling stem borer, spray chlorpyriphos@2.5 ml+Dichlorovos @ 1ml/l or acephate @1.5 gm or cartaphydrochloride@2.0gm per one litre of water.

Rabi Chickpea

- Farmers are advised to procure seed of high yielding varieties like NBeG 3, NBeG 47, and NBeG 49
- Take up sowing after receiving sufficient rainfall for sowing.
- Optimum time of sowing: 1st fort night of October to 1st fort night of November.
- Fertilizers : 20kg N, 50kg P₂O₅ per hectare.
- Seed treatment : Treat the seed with carbendazim 2.5g/kg or Tebuconazole 1.5g/kg before sowing.

Castor

- Semi looper incidence was noticed in castor at few places in the division. Farmers are advised to spray, Acephate @1.5 g/l or Profenophos @2ml/l for control.
- If the incidence is severe, apply [Thiodicarb@1.5g/l](#) for control

Cotton

- If the sucking pest incidence is observed , farmers are advised to spray 0.4ml/l of Imidachloprid (or) 0.2 g of Acetamiprid (or) 1.5g of Acephate (or) 1.6ml Monochrotophos.
- Pink boll worm incidence was noticed below ETL level, farmers are advised to take the following measures.
- Pheromone traps should be installed immediately at the field level for monitoring of the incidence levels on community basis.
- Observation of rosette flowers and sampling of green bolls should be done regularly for monitoring and intensity of the field incidence.
- Destroy rosette flowers and remove the dropped squares, dried flowers and pre-matured bolls to suppress the pest population periodically at the initial stage.
- Spray Profenophos @ 2ml/l or Thiodicarb @ 1.5g/l, if necessary.

- Magnesium deficiency symptoms were observed in some parts of division. For controlling Magnesium deficiency spray, $MgSO_4 @ 10$ gm per one litre of water twice at week interval.
- Boron deficiency symptoms were observed in some parts of division. For control spray Borax 1-1.5 g/l of water twice at one week interval at 60 and 90 days after sowing.

Livestock

- Prevailing conditions are favorable for foot and mouth disease in livestock, farmers are advised to vaccination (FMD vaccine) of animals.
- In sheep and Goat, prevailing conditions are favorable for Blue tongue disease, for prevention of this disease farmers are advised to go for BT vaccine.

AGRO METEOROLOGICAL ADVISORY FOR KURNOOL DISTRICT, A P

Groundnut

- Farmers are advised to postpone harvesting of groundnut crop or harvest the crop only on clear days. They are also advised to keep the harvested produce safely to avoid wetting in rains.
- Groundnut leaf miner incidence is observed in some parts of the division. For the control of leaf miner, farmers are advised to spray chlorpyrifos @ 2.5 ml / l (or) flubendamide 0.5 ml/l (or) monocrotophos 1.6 ml/l of water.
- Farmers are advised to spray [Monochrotophos @ 1.6](#) ml/l or Imidacloprid 0.3ml/l or Dimethoate @ 2 ml/l for control of sucking pests in groundnut.
- Tikka leaf spot disease was observed in some parts of division. To control farmers are advised to spray Saaf 3g/l (Mancozeb 2g/l + carbendazim 1g/l) of water.

Rice

- BPH incidence is observed in some parts of district. To control BPH buprofezin 1.6ml/lit or ethofenpros @ 2.0 ml/lit is recommended and intermittent drying of field.
- Leaf folder incidence was noticed in few parts of the division. For the control spraying of chlorpyrifos 2.5 ml + Dichlorvos @ 1ml/l or cartaphydrochloride @ 2 g/L of water.
- Stem borer incidence was observed in early stages of transplanted rice in the district. For controlling stem borer, spray chlorpyrifos @ 2.5 ml + Dichlorvos @ 1ml/l or acephate @ 1.5 gm or cartaphydrochloride @ 2.0 gm per one litre of water.

Rabi Chickpea

- Farmers are advised to procure seed of high yielding varieties like NBeG 3, NBeG 47, and NBeG 49
- Take up sowing after receiving sufficient rainfall for sowing.
- Optimum time of sowing: 1st fort night of October to 1st fort night of November.
- Fertilizers : 20kg N, 50kg P_2O_5 per hectare.
- Seed treatment : Treat the seed with carbendazim 2.5g/kg or Tebuconazole 1.5g/kg before sowing.

Castor

- Semi loopier incidence was noticed in castor at few places in the division. Farmers are advised to spray, Acephate @ 1.5 g/l or Profenophos @ 2ml/l for control.
- If the incidence is severe, apply [Thiodicarb @ 1.5g/l](#) for control

Cotton

- If the sucking pest incidence is observed, farmers are advised to spray 0.4ml/l of Imidachloprid (or) 0.2 g of Acetamiprid (or) 1.5g of Acephate (or) 1.6ml Monochrotophos.
- Pink boll worm incidence was noticed below ETL level, farmers are advised to take the following measures.
- Pheromone traps should be installed immediately at the field level for monitoring of the incidence levels on community basis.
- Observation of rosette flowers and sampling of green bolls should be done regularly for monitoring and intensity of the field incidence.
- Destroy rosette flowers and remove the dropped squares, dried flowers and pre-matured bolls to suppress the pest population periodically at the initial stage.
- Spray Profenophos @ 2ml/l or Thiodicarb @ 1.5g/l, if necessary.
- Magnesium deficiency symptoms were observed in some parts of division. For controlling Magnesium deficiency spray, Mgso₄@10 gm per one litre of water twice at week interval.
- Boron deficiency symptoms were observed in some parts of division. For control spray Borax 1-1.5 g/l of water twice at one week interval at 60 and 90 days after sowing.

Livestock

- Prevailing conditions are favorable for foot and mouth disease in livestock, farmers are advised to vaccination (FMD vaccine) of animals.
- In sheep and Goat, prevailing conditions are favorable for Blue tongue disease, for prevention of this disease farmers are advised to go for BT vaccine.