

Meteorological Department  
-  
Agro-Meteorological Centre,  
-500 016



Government of India  
India

State

Hyderabad- 500 016

## COMPOSITE AGRO-METEOROLOGICAL ADVISORY SERVICE

### BULLETIN FOR THE STATE OF ANDHRA PRADESH



ISSUED ON 18.01.2019

BULLETIN NO: 006

From the period (19.01.2019 to 23-01-2019)  
(5 days from Saturday to Wednesday)  
**State Agro-meteorological Services Center (SAMC), Hyderabad**

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

Agro-climatic Zone	Districts	In-charge stations
North Coastal	Srikakulam, Vizianagaram &	RARS, Anakapalle
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

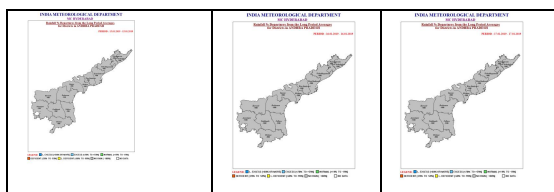
### A.1. Synoptic situation during last 3 days from 15.01.2019 to 17.01.2019

Mainly low level NorthEasterlies/ Easterlies prevail over the State from 15<sup>th</sup> Jan to 17<sup>th</sup> Jan 2019.

### A.2. Realized Rainfall distribution during last three days from 15.01.2019 to 17.01.2019

Dry weather prevailed over Coastal Andhra Pradesh and Rayalaseema from 15<sup>th</sup> Jan to 17<sup>th</sup> Jan 2019.

### A.3 Rainfall Distribution for the Period of 15.01.2019 to 17.01.2019 (for Three days)



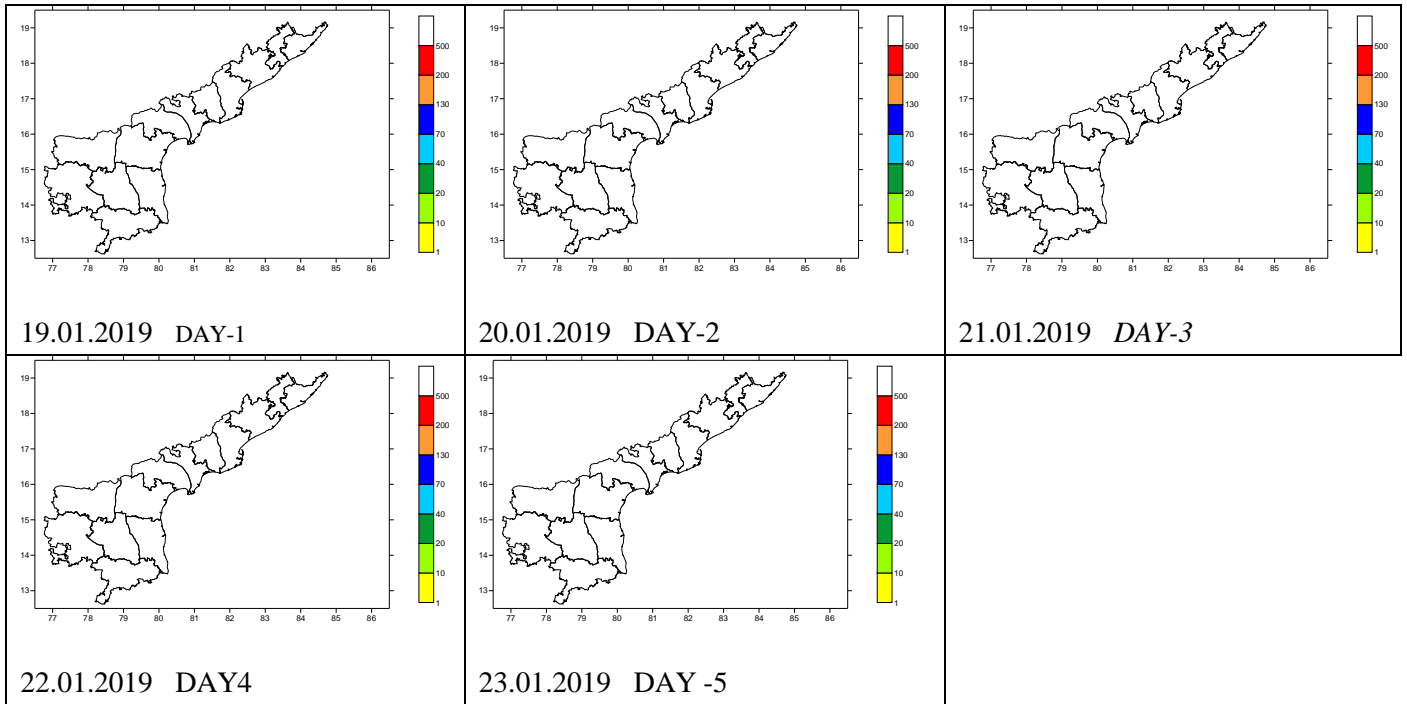
### A.4 Description of Past Weather for the last three days (15.01.2019 to 17-01-2019)

WEATHER PARAMETER	Coastal Andhra Pradesh	Rayalaseema
Max Temperature (deg C):	26-31	29-32
Dep from normal	Normal	Normal
Min Temperature (deg C):	16-21	14-17
Dep from normal	Normal	Appreciably below normal
Total cloud cover (Okta):	0-4	1-3
Max Relative Humidity (%)	80-92	71-79
Min Relative Humidity (%)	57-79	29-50
Wind Speed (Kmph):	4-0	1-3

### A.6 Weather parameters distribution for the next five days in range (Period 18.01.2019 to 23-01-2019)

ZONES	N.COASTAL	GODAVARI	KRISHNA	SOUTHERN	SCARCE RAINFALL
Rainfall(mm)	0-0	0-0	0-0	0-0	0-0
TempMax(°C)	31-29	30-28.8	31-30.6	31-30.5	33-32
TempMin(°C)	21.2-19	21-20	20-20	20-20	18-16
HumidityI(%)	93-90	89-82	92-88	93-88	82-71
HumidityII(%)	75-70	68-63	75-70	62-58	28-25
WindSpeed(m/s)	10-6.5	7.8-6	9.6-8	10.7-8.5	11.6-8.6
WindDirection(degree)	290-230	171-144	160-113	270-240	137-131
CloudCover(octa)	4-0	4-0	4-0	5-3	4-1

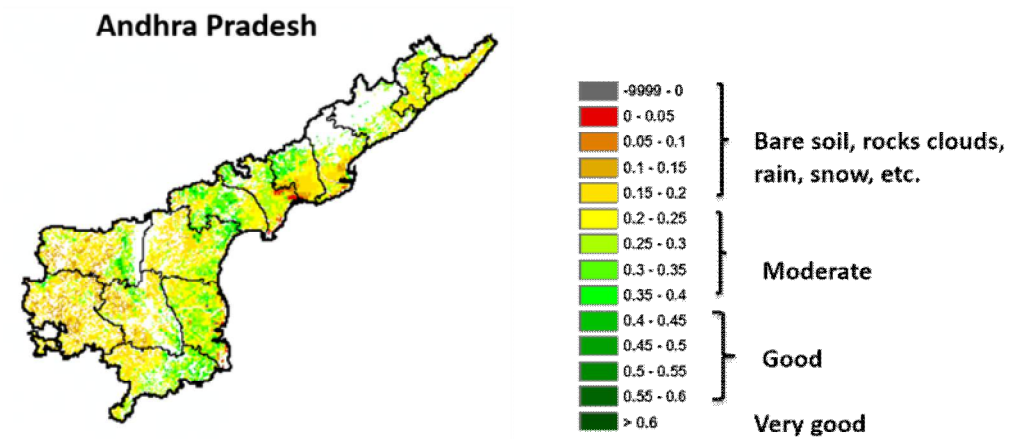
**A.7 Rainfall distribution for the next five days (Period 18.01.2019 to 23-01-2019)**



**EXTENDED RANGE FORECAST**

<b>Extended Range Forecast</b>			
<b>S. No.</b>	<b>Met Subdivisions</b>	<b>Week 1 (18.01.2019 to 24.01.2019)</b>	<b>Week 2 (25.01.2019 to 31.01.2019)</b>
<b>1.</b>	<b>Costal Andhra Pradesh</b>	Below Normal	Above Normal
<b>2.</b>	<b>Rayalseema</b>	Below Normal	Above Normal

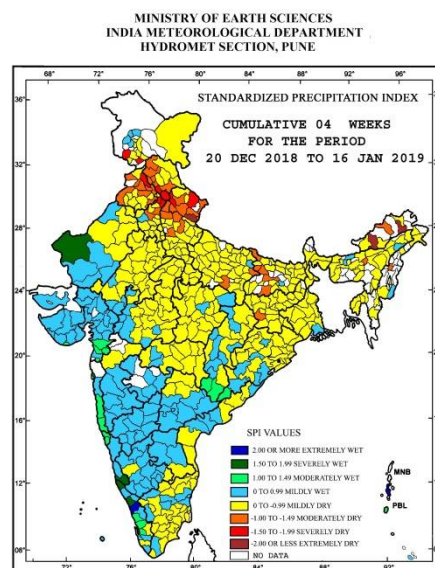
NOAA/VIIRS/BLENDED NDVI Composite ending on Week no 02  
(07.01.2019 to 13.01.2019) over Agricultural region



Agriculture vigour is good in isolated pockets over costal Andhra Pradesh rest of the state shows moderate NDVI.

**Standardised Precipitation Index**

**Cumulative 4 weeks for the period 20<sup>th</sup> December 2018 to 16<sup>th</sup> January 2019**



- Andhra Pradesh experienced moderately wet/mildly dry/mildly wet conditions.

## 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
Rabi rice	Nursery	Zinc deficiency	Spray zinc sulphate @ 2 g/l
Maize	Vegetative to cob development stage	Stem borer	Whorl application of Carbofuron 3 G granules @ 4 kg/ac
		Fall army worm	Spray Chloripyriphos @ 2.5 ml / 1 or Spray chlorantriliniprole @ 0.3 ml / 1 for control of early instar larvae.
			Poison baiting with Rice bran @ 10 kg + Jaggery @ 2 kg + Thiomethaxom @ 100 g per acre.
		Downy mildew	Spry Metalaxyl @ 2 g/l
Pulses (Blackgram and greengram)	Vegetative to flowering stage	Powdery mildew	Spray wettablesulphur @ 3 g/l
Ragi	Tillering	Blast	Spray Carbendazim @ 1 g/l or Hexaconazole @ 2 ml/l or Tricyclozole @ 0.6 g/l
		Zinc deficiency	Spray zinc sulphate @ 2 g/l
Sugarcane Ratoon	Ratooning Stage	Smut	Spray Propiconazole @ 1.0 ml / 1 immediately after ratooning

### AGRO METEOROLOGICAL ADVISORY FOR VIZIANAGARAM DISTRICT, A P

Crop	Stage and condition of the crop	Problems / Pest and disease	Agro Advisory
Rabi rice	Nursery	Zinc deficiency	Spray zinc sulphate @ 2 g/l
Maize	Vegetative to cob development stage	Stem borer	Whorl application of Carbofuron 3 G granules @ 4 kg/ac
		Fall army worm	Spray Chloripyriphos @ 2.5 ml / 1 or Spray chlorantriliniprole @ 0.3 ml / 1 for control of early instar larvae.
			Poison baiting with Rice bran @ 10 kg + Jaggery @ 2 kg + Thiomethaxom @ 100 g per acre.
		Downy mildew	Spry Metalaxyl @ 2 g/l
Pulses (Blackgram and greengram)	Vegetative to flowering stage	Powdery mildew	Spray wettablesulphur @ 3 g/l
Ragi	Tillering	Blast	Spray Carbendazim @ 1 g/l or Hexaconazole @ 2 ml/l or Tricyclozole @ 0.6 g/l
		Zinc deficiency	Spray zinc sulphate @ 2 g/l
Sugarcane Ratoon	Ratooning Stage	Smut	Spray Propiconazole @ 1.0 ml / 1 immediately after ratooning

## AGRO METEOROLOGICAL ADVISORY FOR VISAKHAPATNAM DISTRICT, AP

Crop	Stage and condition of the crop	Problems / Pest and disease	Agro Advisory
Rabi rice	Nursery	Zinc deficiency	Spray zinc sulphate @ 2 g/l
Maize	Vegetative to cob development stage	Stem borer	Whorl application of Carbofuron 3 G granules @ 4 kg/ac
		Fall army worm	Spray Chloripyriphos @ 2.5 ml / l or Spray chlorantriliniprole @ 0.3 ml / l for control of early instar larvae.
			Poison baiting with Rice bran @ 10 kg + Jaggery @ 2 kg + Thiomethaxom @ 100 g per acre.
		Downy mildew	Spry Metalaxyl @ 2 g/l
Pulses	Vegetative to flowering stage	Powdery mildew	Spray wettablesulphur @ 3 g/l
Ragi	Tillering	Blast	Spray Carbendazim @ 1 g/l or Hexaconazole @ 2 ml/l or Tricyclozole @ 0.6 g/l
		Zinc deficiency	Spray zinc sulphate @ 2 g/l
Sugarcane Ratoon	Ratooning Stage	Smut	Spray Propiconazole @ 1.0 ml / l immediately after ratooning

## AGRO METEOROLOGICAL ADVISORY FOR NELLORE DISTRICT, A P

Crop	Stage of the crop	Problem	Remedial measures
Paddy		Stem borer	To control spray chloripyriphos @ 2.5 ml. (or) acephate @ 1.5 g. (or) cartaphydrochloride @ 2 g./L of water
	Transplanting to tillering stage	Blast	The present weather conditions are favourable for occurrence of blast disease. To control spray tricyclozole (beem) @ 0.6/L (or) isoprothiolin @ 1.5 ml./L of water.
		Zinc deficiency	The night temperatures are gradually falling with light dew which is favourable for zinc deficiency. <ul style="list-style-type: none"> <li>Brown color spots appears at 3<sup>rd</sup> or 4<sup>th</sup> leaf after 2 to 6 weeks if zinc deficiency occurs.</li> <li>To control spray zinc sulphate @ 2 g + urea @ 5 g. on the crop at 2 to 3 days interval in one week.</li> </ul>
Blackgram and greengram crops	Vegetative pod stage	Powdery mildew	The present weather conditions are favourable for powdery mildew in Blackgram and greengram. To control spray hexaconazole @ 2 ml./L of water.
Red gram	Flowering	Pod borers	The present weather conditions are highly favourable for incidence of Maruca and Helicoverpa. For control of these pests spray thiodicarb 1g (or) Novaluran @ 1 ml./lt. of water.
Greengram	Flowering to pod stage	YMV	The present weather conditions are favourable for YMV in greengram. To control spray trizophos @ 2.5 ml./L of water.
Melons		Thrips	The present weather conditions are favorable for thrips in melons which cause viral diseases.

			To control the vector spray spinosad @ 0.35 ml./L of water.
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### **AGRO METEOROLOGICAL ADVISORY FOR CHITTOOR DISTRICT, A P**

<b>Crop</b>	<b>Stage of the crop</b>	<b>Problem</b>	<b>Remedial measures</b>
Groundnut	Vegetative stage	Sucking pests and stem rot	<ul style="list-style-type: none"> <li>The present weather conditions are favourable for Sucking pests and stem rot in groundnut. To control spray monocrotophos @ 1.6 ml/L of water.</li> <li>Remove the weeds on bunds and field</li> </ul>
Paddy		Stem borer	To control spray chloripyriphos @ 2.5 ml. (or) acephate @ 1.5 g. (or) cartaphydrochloride @ 2 g./L of water
	Transplanting to tillering stage	Blast	The present weather conditions are favourable for occurrence of blast disease. To control spray tricyclozole (beem) @ 0.6/L (or) isoprothiolin @ 1.5 ml./L of water.
		Zinc deficiency	<p>The night temperatures are gradually falling with light dew which is favourable for zinc deficiency.</p> <ul style="list-style-type: none"> <li>Brown color spots appears at 3<sup>rd</sup> or 4<sup>th</sup> leaf after 2 to 6 weeks if zinc deficiency occurs.</li> <li>To control spray zinc sulphate @ 2 g + urea @ 5 g. on the crop at 2 to 3 days interval in one week.</li> </ul>
Gingelly	Vegetative – grain stage	Powdery mildew	The present weather conditions are favourable for occurrence of powdery mildew. To control spray wetttable sulphur @ 3 g./L of water.
Pulses		powdery mildew	In late sown blackgram crop there is chance of occurrence of powdery mildew. To control spray hexaconazole @ 2 ml./L of water.
Tomato	Flower to pod	Early blight and late blight	The present weather conditions are favourable for Early blight and late blight in tomato. Control by spraying chlorothalonil @ 2 g. or redomil MZ @ 2.5 ml./L of water.
Chilli	Flowering to pod	Upward and downward leaf curl	To control spray phosalon (Zolone) 3 ml. or diphenthiuron @ 1 g./L of water.
Cattle, Livestock & Poultry			<ul style="list-style-type: none"> <li>As dew fall and cold weather conditions are prevailing, farmers are advised to give light, heat through by fluorescent bulbs and protect them in sheds.</li> <li>To control the body temperature, give hot water and modify the sheds in order to allow</li> </ul>

proper light and ventilation.

## AGRO METEOROLOGICAL ADVISORY FOR KADAPA DISTRICT, A P

<b>Crop</b>	<b>Stage of the crop</b>	<b>Problem</b>	<b>Remedial measures</b>
Groundnut	Vegetative stage	Sucking pests and stem rot	<ul style="list-style-type: none"> <li>The present weather conditions are favourable for Sucking pests and stem rot in groundnut. To control spray monocrotophos @ 1.6 ml/L of water.</li> <li>Remove the weeds on bunds and field</li> </ul>
Paddy		Stem borer	To control spray chloripyriphos @ 2.5 ml. (or) acephate @ 1.5 g. (or) cartaphydrochloride @ 2 g./L of water
	Transplanting to tillering stage	Blast	The present weather conditions are favourable for occurrence of blast disease. To control spray tricyclozole (beem) @ 0.6/L (or) isoprothiolin @ 1.5 ml./L of water.
		Zinc deficiency	<p>The night temperatures are gradually falling with light dew which is favourable for zinc deficiency.</p> <p>Brown color spots appears at 3<sup>rd</sup> or 4<sup>th</sup> leaf after 2 to 6 weeks if zinc deficiency occurs.</p> <ul style="list-style-type: none"> <li>To control spray zinc sulphate @ 2 g + urea @ 5 g. on the crop at 2 to 3 days interval in one week.</li> </ul>
Gingelly	Vegetative – grain stage	Powdery mildew	The present weather conditions are favourable for occurrence of powdery mildew. To control spray wettable sulphur @ 3 g./L of water.
Red gram	Flowering	Pod borers	The present weather conditions are highly favourable for incidence of Maruca and Helicoverpa. For control of these pests spray thiodicarb 1g (or) Novaluran @ 1 ml/lt. of water.
Mango	Flowering stage	Leaf hoppers and anthracnose	As this is the prime time for occurrence of flowering in mango the present weather conditions are favourable for leaf hopper and anthracnose in mango. To control spray Lamda cyhalothrin 5% EC @ 1 ml. + Kantaf 2 ml. or Saf 1.5 g./L of water + potassium nitrate KNO <sub>3</sub> @ 5g./L of water
Banana	Fruit stage		To control leaf spot spray propiconazole @ 1 ml./L of water.
Turmeric		Leaf spot	The present weather conditions are favourable for leaf spot disease in Turmeric. To control spray carbendizem @ 1 g. or mancozeb @ 2.5 g./L of water.
Melons		Thrips	The present weather conditions are favorable for thrips in melons which cause viral diseases. To control the vector spray spinosad @ 0.35 ml./L of water.
Cattle, Livestock & Poultry			<ul style="list-style-type: none"> <li>As dew fall and cold weather conditions are prevailing, farmers are advised to give light, heat through by fluorescent bulbs and protect them in sheds.</li> </ul>



			<ul style="list-style-type: none"> <li>To control the body temperature, give hot water and modify the sheds in order to allow proper light and ventilation.</li> </ul>
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### 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
Pulses	Vegetative stage	Powdery mildew	Spray carbendazim@ 200 gm or thiophanate methyl@200 gm or hexaconazole@ 400 gm or propiconazole@ 200 gm per acre twice at 10 days intervals
Maize	Vegetative stage	Fall armyworm	Spray emamectin benzoate 5 s.d @80 grams per 200 liters of water Whorl directed sprayings are recommended for effective management of the pest
Groundnut	Vegetative stage	Sucking pest	Spray dimethoate@ 2 ml/lit or monocrotophos1.6 ml/lit for effective management of the pest
Sugarcane	January month plantings	Varieties	CO-6907 , CO-T-8201 , CO-A.7602 , CO-7219 , 81-A-99 , 85-A-261 , 83-A-30, 84-A-125 , 90-A-272 , 83-V-15 , 85-R-186 , 83-R-23 , 87-A-298 , 93-A-145 , 91-V-83

### AGRO METEOROLOGICAL ADVISORY FOR GUNTUR DISTRICT, A P

Name of Crop	Stage/ Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
Pulses	Vegetative stage	Powdery mildew	Spray carbendazim@ 200 gm or thiophanate methyl@200 gm or hexaconazole@ 400 gm or propiconazole@ 200 gm per acre twice at 10 days intervals
Maize	Vegetative stage	Fall armyworm	Spray emamectin benzoate 5 s.d @80 grams per 200 liters of water Whorl directed sprayings are recommended for effective management of the pest
Groundnut	Vegetative stage	Sucking pest	Spray dimethoate@ 2 ml/lit or monocrotophos1.6 ml/lit for effective management of the pest
Cotton	Pickings	Discoloration due to foggy weather in the morning	Cotton picking during morning under fog can reduce the quality of kappas, this can be managed by shade drying of the harvested kappas in the field

			then bagging. Care should be taken while harvesting of kappas regarding mixing of dried squares and leaves to kappas. Otherwise this will leads to dusky cotton bug attack thereby reduce the quality.
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### AGRO METEOROLOGICAL ADVISORY FOR KRISHNA DISTRICT, A P

Name of Crop	Stage/Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
Pulses	Vegetative stage	Powdery mildew	Spray carbendazim@ 200 gm or thiophanate methyl@200 gm or hexaconazole@ 400 gm or propiconazole@ 200 gm per acre twice at 10 days intervals
Maize	Vegetative stage	Fall armyworm	Spray emamectin benzoate 5 s.d @80 grams per 200 liters of water Whorl directed sprayings are recommended for effective management of the pest
Cotton	Pickings	Discoloration due to foggy weather in the morning	Cotton picking during morning under fog can reduce the quality of kappas, this can be managed by shade drying of the harvested kappas in the field then bagging. Care should be taken while harvesting of kappas regarding mixing of dried squares and leaves to kappas. Otherwise this will leads to dusky cotton bug attack thereby reduce the quality.
groundnut	Vegetative stage	Thrips	Spray dimethoate@ 2 ml/lit or monocrotophos1.6 ml/lit for effective management of the pest
Sugarcane	January month plantings	Varieties	CO-6907 , CO-T-8201 , CO-A.7602 , CO-7219 , 81-A-99 , 85-A-261 , 83-A-30, 84-A-125 , 90-A-272 , 83-V-15 , 85-R-186 , 83-R-23 , 87-A-298 , 93-A-145 , 91-V-83

### AGRO METEOROLOGICAL ADVISORY FOR PRAKASAM DISTRICT, A P

Name of Crop	Stage/Condition of the crop	Weather based Management suggestion	Weather based Agro advisories
Pulses	Vegetative stage	Powdery mildew	Spray carbendazim@ 200 gm or thiophanate methyl@200 gm or hexaconazole@ 400 gm or propiconazole@ 200 gm per acre twice at 10 days intervals
Cotton	Pickings	Discoloration due to foggy weather in the morning	Cotton picking during morning under fog can reduce the quality of kappas, this can be managed by shade drying of the harvested kappas in the field then bagging. Care should be taken while harvesting of kappas regarding mixing of dried squares and leaves to kappas. Otherwise this will leads to dusky cotton bug attack thereby reduce the quality.
Maize	Vegetative stage	Fall armyworm	Spray emamectin benzoate 5 s.d @80 grams per 200 liters of water Whorl directed sprayings are recommended for effective management of the pest
Groundnut	Vegetative stage	Sucking pest	Spray dimethoate@ 2 ml/lit or monocrotophos1.6 ml/lit for effective management of the pest

Redgram	Flowering to pod formation stage	Maruca webber	Spray combination of chloropyriphos 500 ml + nuvan 200 per acre at flowering stage
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### AGRO METEOROLOGICAL ADVISORY FOR ANANTHAPURAM DISTRICT, A P

Crop	Stage	Agro advisory
Groundnut	Vegetative to initial flowering	Topdressing of 9kg urea and 200kg Gypsum per acre should be applied and earthing up of the soil has to be done in 30 days crop. Farmers are advised to go for the spraying of Monochrotophos @ 1.6 ml/l or Imidacloprid 0.3ml/l or Dimethoate @ 2 ml/l for control of sucking
Maize	All stages	Fall army worm incidence was observed in different parts of the district. Farmers are advised to spray Emamectin benzoate @ 0.4 ml/lit (or) Thiomethoxam @ 2.5ml + Lamda cyahalothrin @ 1ml / 1 L of water (or) Poison baiting with 10kg of rice bran + 2kg of jiggery + 2lit water - keep overnight for fermentation and add 100g of Thiodicarb before 30 min of
Mango	Flowering	If flowering delayed farmers are advised to spray KNO <sub>3</sub> or Multi K @ 10g + urea @ 5g per liter water. As the prevailing weather conditions are favorable for incidence of powdery mildew, farmers are advised to spray water soluble Sulphur @ 3g/lit or Hexaconazole @ 2ml/l of water. Prevailing conditions are favourable for incidence of hoppers in mango. For the control farmers are advised to go for spraying of Thiomethoxam 0.4 g and Hexaconazol 2ml/l (or) Dainocap or Tridemorph 0.5 g/l. Spraying of Planofix @ 3ml / 15 lit of water will avoid flower drop
Poultry	All stages	Provide artificial brooding to chicks to maintain adequate temperature. Sides should be covered with curtains during cool hours of the day. Wet litter material should be removed regularly. Ensure proper cross ventilation to avoid ammonia accumulation.

## AGRO METEOROLOGICAL ADVISORY FOR KURNOOL DISTRICT, A P

Crop	Stage	Agro
<b>Groundnut (rabi)</b>	Vegetative to initial flowering stage	<p>Topdressing of 9kg urea and 200kg Gypsum per acre should be applied and earthing up of the soil has to be done in 30 days crop.</p> <p>Farmers are advised to go for the spraying of <u>Monochrotophos@1.6 ml/l</u> or Imidacloprid 0.3ml/l or Dimethoate @ 2 ml/l for control of sucking pests in groundnut.</p>
<b>Mango</b>	Flowering & fruit setting stage	<p>If flowering delayed farmers are advised to spray <math>KNO_3</math> or Multi K @10g + urea @5g per liter water. As the prevailing weather conditions are favorable for incidence of powdery mildew, farmers are advised to spray water soluble Sulphur @3g/lit or Hexaconazole @2ml/l of water.</p> <p>Prevailing conditions are favourable for incidence of hoppers in mango. For the control farmers are advised to go for spraying of Thiomethoxam 0.4 g and Hexaconazole 2ml/l (or) Dainocap or Tridemorph 0.5 g/l. Spraying of Planofix @3ml / 15 lit of water will avoid flower drop and help in fruit formation.</p>
<b>Castor</b>	Flower initiation	<p>For control of white fly farmers are advised to spray Triazophos 1.5 ml/l or <u>Monochrotophos@1.6 ml/l</u> or Acephate 1.0 g/l or Acetamiprid 0.2 g/l</p> <p>Powdery mildew incidence was observed in some parts of the district. For control farmers are advised to spray Metalaxyl 8% M Z 2g/l + Mancozeb 64% w.p (or) Copper oxychloride 50% w.p 3g/l of water</p>
<b>Redgram</b>	Pod Maturity	<p>Pod fly incidence was observed in some parts of the district. Farmers are advised to spray <u>Monochrotophos@1.6 ml/l</u> or Dimethoate @ 2 ml/l or Prophenophos 2 ml/l or Thiochlorid 0.7 ml/l of water</p>
<b>Blackgram</b>		<p>White fly incidence was observed in some parts of district. Farmers are advised to place yellow sticky traps in fields.</p> <p>If the incidence is above ETL, farmers are advised to spray triazophos 1ml or Prophenophos 1ml/lit twice @ 10 days interval.</p>

<b>Poultry</b>	All stages	Provide artificial brooding to chicks to maintain adequate temperature. Sides should be covered with curtains during cool hours of the day. Wet litter material should be removed regularly. Ensure proper cross ventilation to avoid ammonia accumulation.
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