



GOVERNMENT OF INDIA
 MINISTRY OF EARTH SCIENCES
 INDIA METEOROLOGICAL DEPARTMENT
 METEOROLOGICAL CENTER, HYDERABAD

**COMPOSITE AGRO-METEOROLOGICAL ADVISORY SERVICE
 BULLETIN FOR THE STATE OF TELANGANA**



ISSUED ON 18.08.2017

BULLETIN NO.66

From the period (19-08-2017 to 23-08-2017)

(5 day from Saturday to Wednesday)

STATE AGRO-METEOROLOGICAL SERVICES CENTER (SAMC), HYDERABAD

Three Agro-climatic Zones of Telangana

Agro-climatic Zone	Districts	In-charge stations
North Telangana	Adilabad, Karimnagar & Nizamabad	RARS, Jagtial
South Telangana	Mahabubnagar, Nalgonda,	RARS, Rajendra Nagar
Central Telangana	Medak, Warangal & Khammam	RARS, Rajendra Nagar

Part A: Weather

Synoptic situation

15.08.17: A North-South Trough runs from Rayalaseema to South Tamilnadu and extends up to 0.9km above mean sea level. Yesterday's upper air cyclonic circulation from South Coastal Tamilnadu and neighbourhood extends up to 0.9km above mean sea level has become less marked. Yesterday's cyclonic circulation over maratwada and neighbourhood at 5.8km above mean sea level has become less marked. An upper air cyclonic circulation to develop over Northwest Bay of Bengal and adjoining Odisha and West Bengal coast around 17th August. Yesterday's trough on sea level chart runs from

odisha to across Andhra Pradesh and Rayalaseema persists. Another trough runs from Vidarbha to South Interior Karnataka across Telangana.

16.08.17: The North-South Trough from Rayalaseema to South Tamilnadu now runs from Telangana to South coastal Tamilnadu and extends up to 0.9km above mean sea level. An upper air cyclonic circulation likely to develop over Northwest Bay of Bengal and adjoining Odisha and West Bengal coasts around 17th August. The trough on sea level chart runs from odisha to South Tamilnadu across Coastal Andhra Pradesh and Rayalaseema persists.

17.08.17: An upper air cyclonic circulation lies over North Bay of Bengal and neighbourhood and extends up to 5.8km above mean sea level & tilting South-westwards with height. Under its influence a low pressure area likely to develop during next 48 hours. The East–West shear zone runs roughly along Lat. 12.0 deg North between 5.8km & 7.6km above mean sea level. The North-south trough from Telangana to South Coastal Tamilnadu extending upto 0.9km above mean sea level has become less marked. The trough on sea level chart from Odisha to South Tamilnadu across Coastal Andhra Pradesh and Rayalaseema persists.

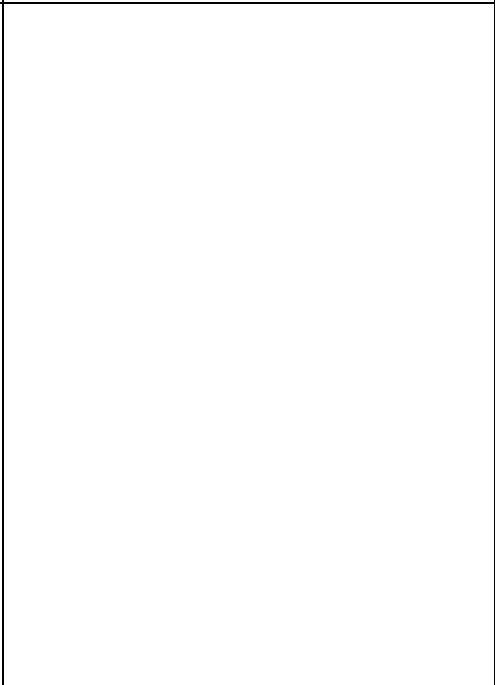
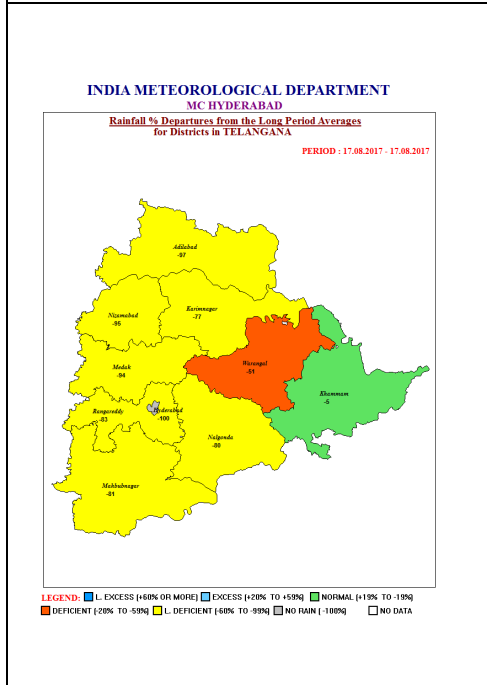
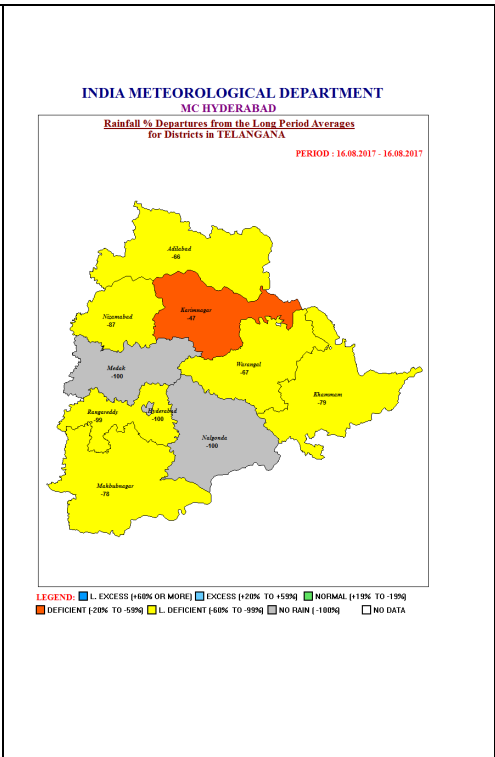
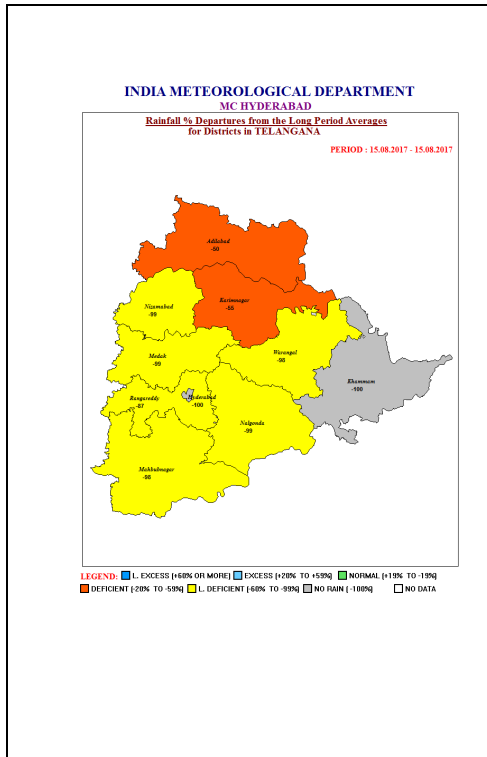
Realized Rainfall distribution during last three days from 15.08.2017 to 17.08.2017

15.08.17: Isolated Rain occurred over Telangana.

16.08.17: Isolated Rain occurred over Telangana.

17.08.17: Isolated Rain occurred over Telangana.

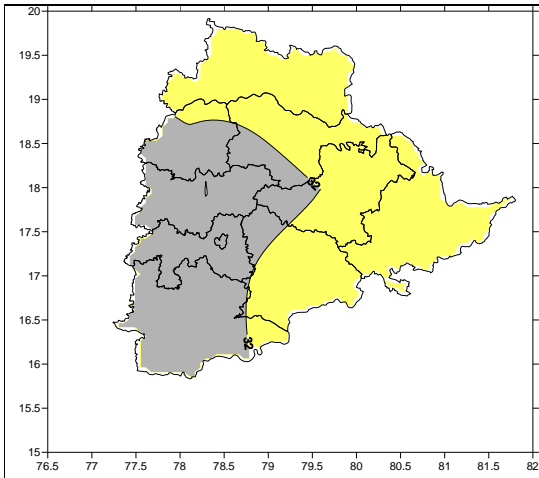
Rainfall Distribution for the Period of 15-08-2017 to 17-08-2017 (for three days)



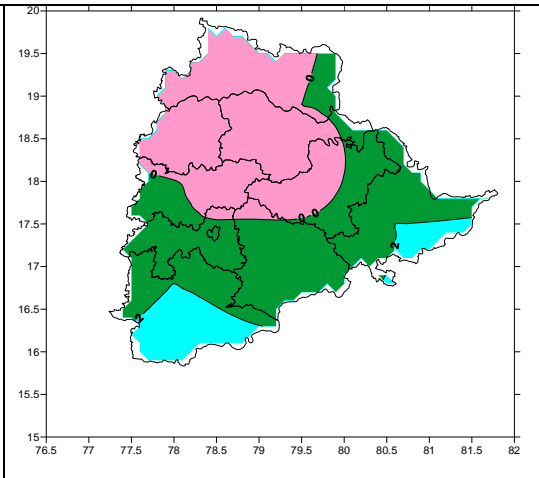
Distribution of Weather parameters for the last three days (Period 15.08.2017 to 17.08.2017)

Mean Maximum Temperature (°C) in Telangana

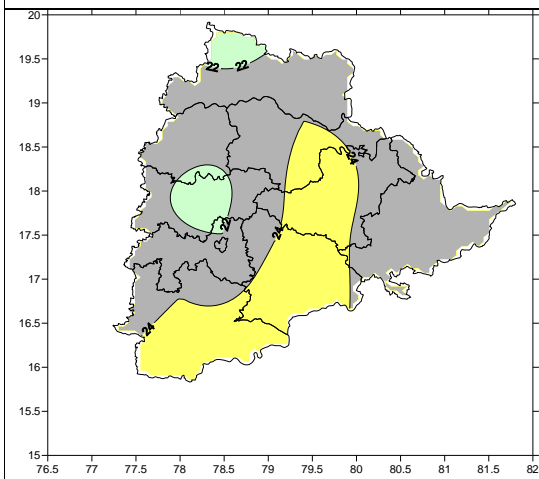
Departure of Maximum Temperature(°c)in Telangana



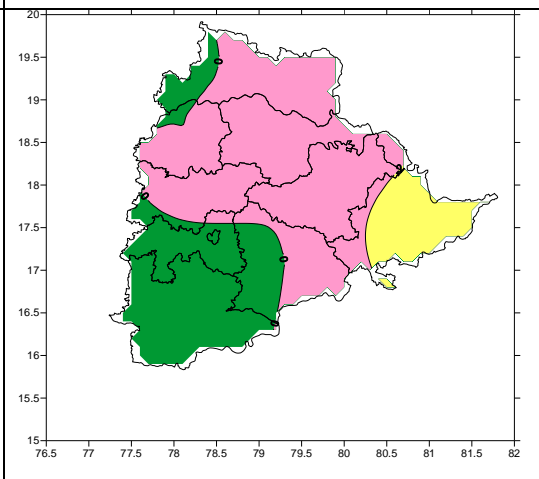
Mean Minimum Temperature (°C) in Telangana



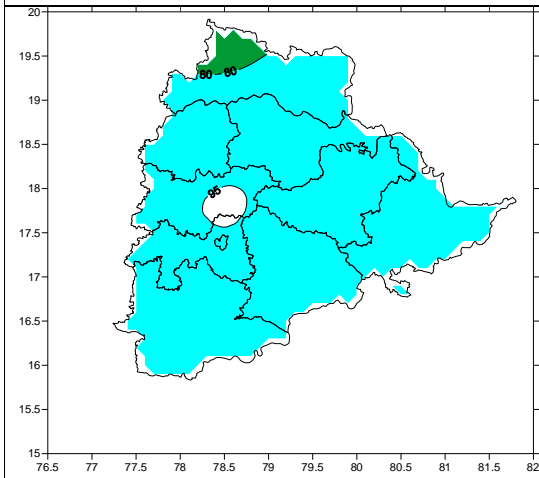
Departure of Minimum Temperature(°C)in Telangana



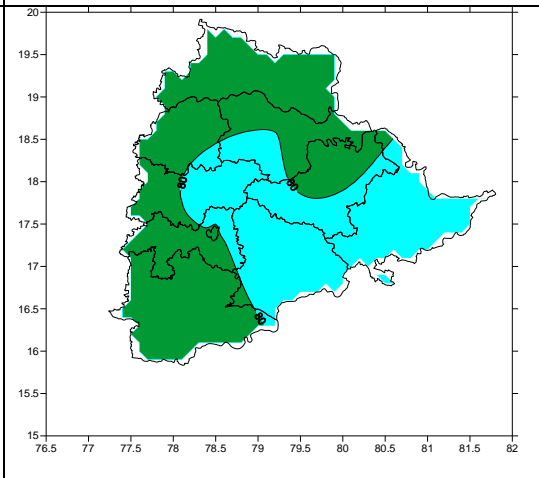
Mean Maximum Relative Humidity (%) in Telangana



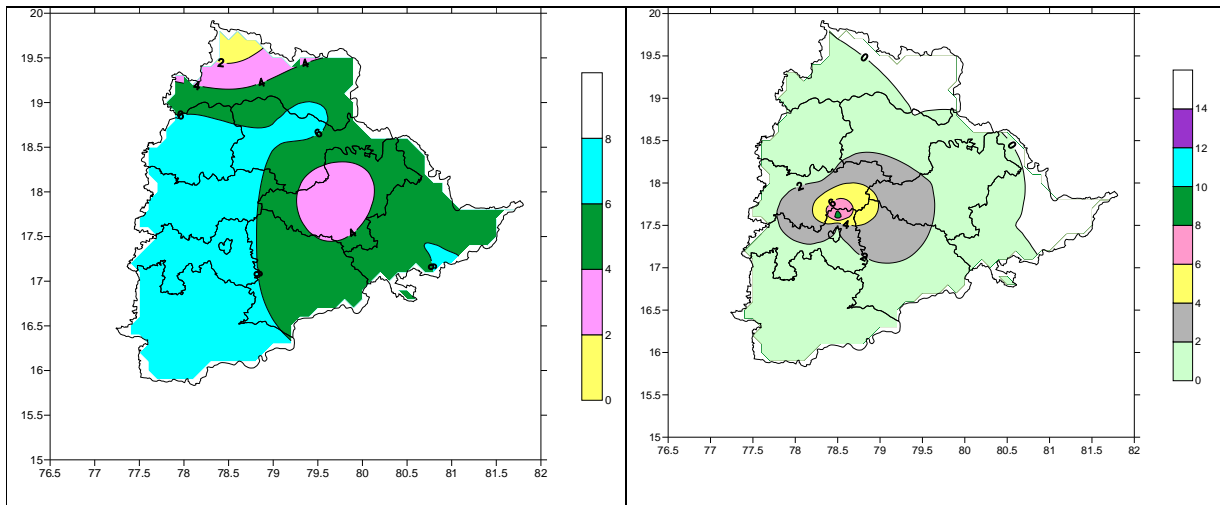
Mean Minimum Relative Humidity(%) in Telangana



Mean Cloud (Octa) in Telangana



Mean Wind speed(Knots) in Telangana



1.4 Description of Past Weather for the last three days (15.08.2017 to 17.08.2017)

Max Temperature (deg C): The maximum temperatures are between 30°C-33°C in the districts of Telangana. The Maximum Temperatures were normal at one or two places over Telangana.

Min Temperature (deg C): The minimum temperatures were 21°C - 25°C in the districts of Telangana. The Minimum Temperatures were below normal at one or two places over Telangana.

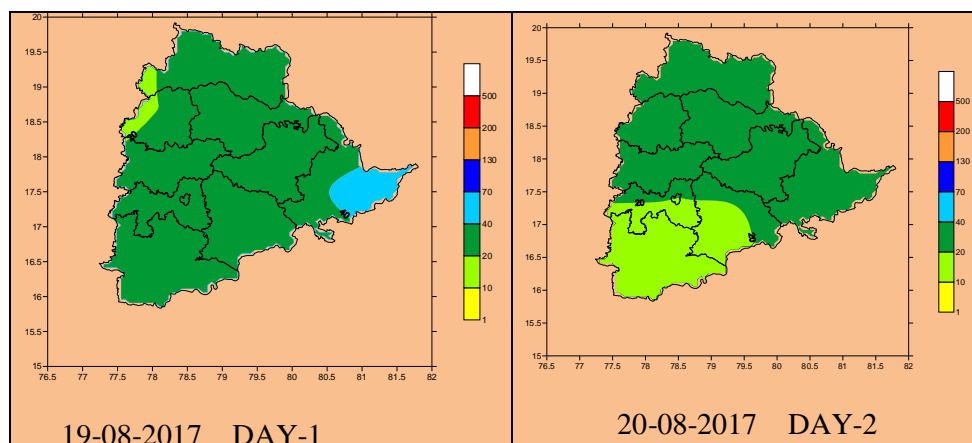
Total cloud cover (Okta): The cloud cover was 0-7 Okta in the districts of Telangana.

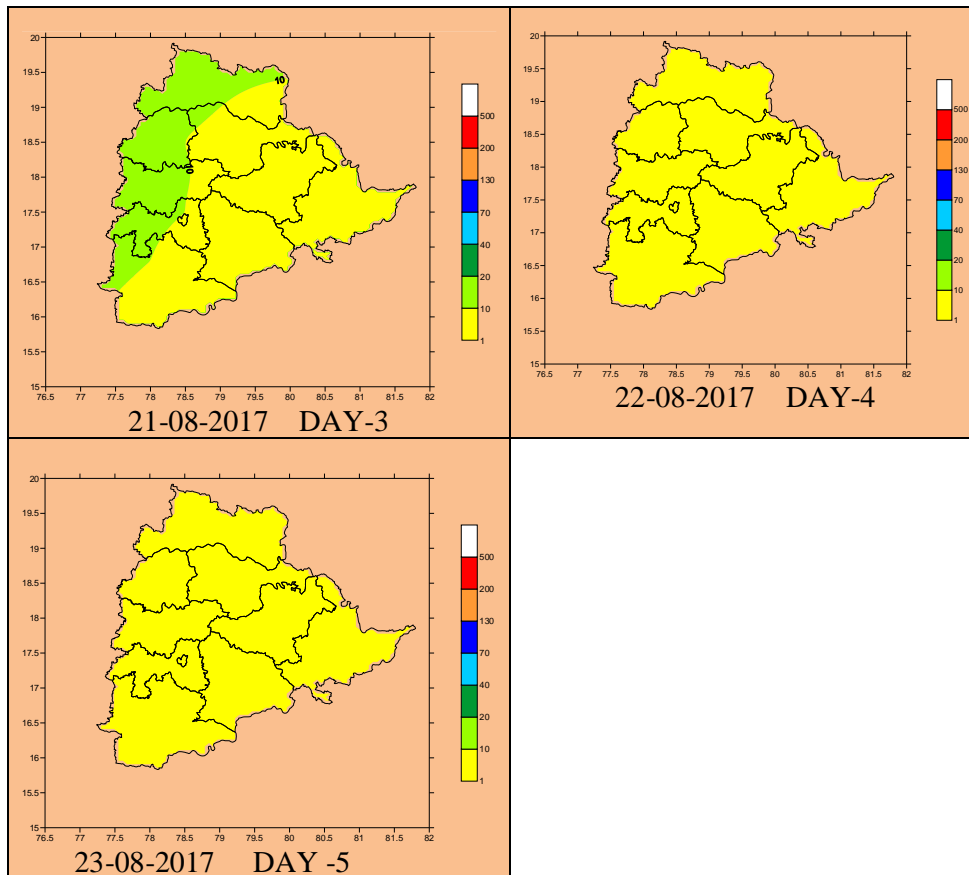
Max Relative Humidity (%): The Relative Humidity was between 71% - 87% in the districts of Telangana.

Min Relative Humidity (%): The Relative Humidity was between 73% - 92% in the districts of Telangana.

Wind Speed (Kmph): The wind speed was between 00-08Knots over Telangana.

2.2 Rainfall distribution for the next five days (Period 19.08.2017 to 23.08.2017)





2.2 Weather parameters distribution for the next five days (Period 19.08.2017 to 23

.08.2017)

Rainfall (mm): North Telangana zone 05-31, Central Telangana Zone 08 -41, South Telangana Zone 08 - 26.

Max Temperature (deg C): The maximum temperature in North Telangana zone would be : 30°C - 32°C, in Central Telangana zone : 32°C - 34°C and in South Telangana Zone : 32°C -34°C.

Min Temperature (deg C): The minimum temperature in North Telangana zone would be : 23°C - 24°C, in Central Telangana zone : 23°C-25°C and in South Telangana Zone : 24°C – 26°C.

Cloud cover (Okta): The cloud cover would be 6-8 Okta in the districts of Telangana.

Max Relative Humidity (%): The maximum Relative Humidity in North Telangana zone would be : 85% - 94% , in Central Telangana zone:85% -96% and in South Telangana Zone :90% - 99%.

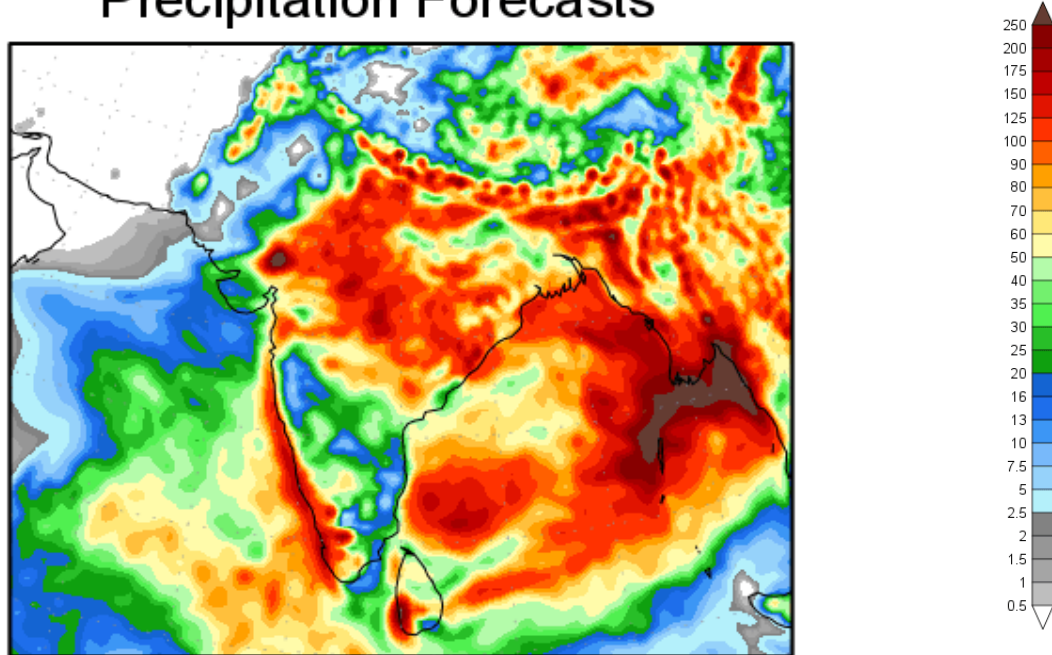
Min Relative Humidity (%): The Minimum Relative Humidity in North Telangana zone would be :73% - 79%, in Central Telangana zone : 71% -83% and in South Telangana Zone :73% - 82%

Wind Speed (Kmph): The wind speed was between 05-11 over North Telangana Telangana, between 06-09 in Central Telangana and 09-11 in South Telangana.

Wind direction (deg): The predominant wind direction would be from Westerlies to North North-Westerlies over Telangana state.

Rainfall Forecast for 18-08-17 to 26-08-17

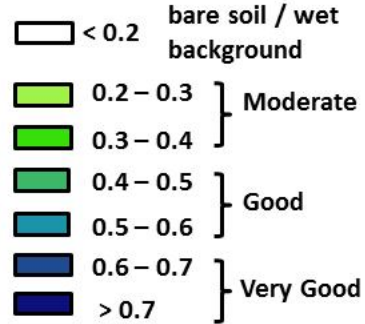
Precipitation Forecasts



NDVI MAP

Telangana

17 Aug 2017



Agriculture vigour is moderate over entire state. Few patches of good vigour are observed over rest of the state

Standardised Precipitation Index Cumulative 11 weeks for the period 1st June 2017 to 16th August 2017

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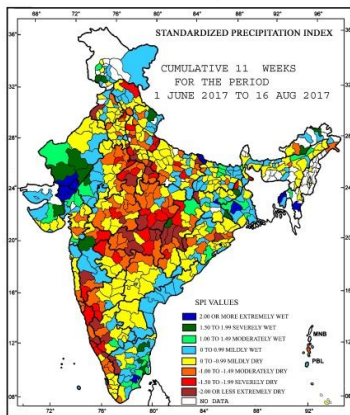


Fig : ACTUAL SPI CONDITIONS FOR THE PERIOD
1 JUNE TO 16 AUGUST 2017

Standardised Precipitation Index Cumulative 12 weeks forecast for the period 1st June 2017 to 23rd August 2017

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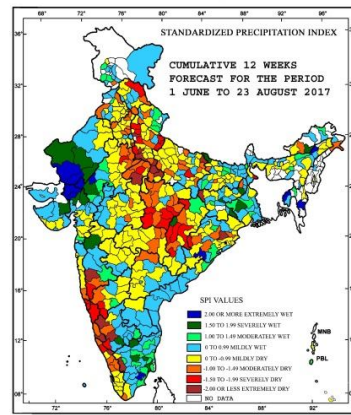


Fig : FORECAST SPI CONDITIONS FOR THE PERIOD
1 JUNE TO 23 AUGUST 2017

Extended Range Forecast

(18th to 31st August 2017)

STATE	FIRST WEEK	SECOND WEEK
Telangana	Above Normal	Above Normal

PART B

Detailed District/Zone wise Agro met Advisories

AGRO METEOROLOGICAL ADVISORY for DISTRICTS of TLNG

PROFESSOR JAYASHANKAR TELANGANA STATE AGRICULTURAL UNIVERSITY Agro Climate Research Centre (ACRC), Agricultural Research Institute, Rajendranagar, Hyderabad-30. WEATHER BASED AGRO ADVISORIES FOR THE PERIOD ENDING 23.08.2017 (Till Wednesday morning) Bulletin No. XXVIII/66/2017 Dt: 18.08.2017

During last three days light to moderate rains occurred at few places over different parts of the State. The maximum and minimum temperatures ranged between 28-35°C and 21-26°C respectively. As per the forecast received from Meteorological Centre, Hyderabad, moderate to rather heavy rains may occur at few places over different parts of the State during next five days. The maximum and minimum temperatures are likely to range between 27-34°C and 18-26°C, respectively.

WEATHER BASED AGRO-ADVISORIES

Rice Prevailing weather conditions are congenial for the incidence of Gallmidge and Stem borer in rice. If incidence is noticed, to control apply Carbofuran 3G @ 10kg or Phorate @ 4 kg per acre at 15-20 days after transplanting.

Maize To control stem borer in 20-25 days aged maize crop apply Carbofuran 3G @ 3-4 kg per acre in leaf whorls. Adopt frequent inter cultivation to control weeds and conserve soil moisture.

• If moisture is sufficient apply urea @ 50 kg and 15-20 kg Muriate of Potash as top dressing at 25-35 days old crop.

Cotton If incidence of sucking pests is noticed in Cotton. To control, apply Monocrotophos and water in 1:4 ratio with soft brush on tender part of the stem at 20 and 40 days after sowing. Adopt frequent inter cultivation to control weeds and conserve soil moisture.

• If moisture is sufficient apply urea @ 50 kg and 15-20 kg Muriate of Potash as top dressing at 30 days old crop.

Greengram Incidence of sucking pests is noticed in

Greengram. To control, spray Monocrotophos @ 1.6 ml or Acephate @ 1.5 g per liter of water. Redgram Under prevailing dry conditions incidence of Aphids is noticed. To control, spray Monocrotophos @ 1.6 ml or Acephate @ 1.5 g and Urea @ 20 g or Multi K @ 5 g per liter of water. Castor Prevailing weather conditions are congenial for the incidence of gray mold. To control, spray Carbendazim @ 1g or Propiconazole @ 1 ml per litre of water by wetting all the plant parts 6-8 hours before occurrence of rains and after 6-8 hours of cessation of rains as a prophylactic measure. Monitor for the incidence of semilooper and spodoptera. If noticed, adopt the following IPM measures Arrange birds perches @ 10 per acre– Spray Acephate @ 1.5 g or Novoluron @ 1 ml or 1.5 g Thiodicarb per litre of water.– Vegetables Incidence of sucking pests is noticed in vegetables. To control, spray Imidacloprid @ 0.3 ml per litre of water. Cattle and buffaloes Prevailing weather conditions are congenial for the occurrence of Ranikhet disease in poultry, ET, sheep pox and PPR in Sheep - Hemorrhagic Septicemia, Foot and mouth disease in cattle and Buffaloes. To prevent the diseases, vaccinate the animals

WEATHER BASED AGRO-ADVISORIES

Rice

Prevailing weather conditions are congenial for the incidence of Hispa and Stem borer in rice. If incidence is noticed, to control

Hispa

- Spray Profenophos @ 2ml or Chlorpyrifos @ 2.5 ml per liter of water.

Stem Borer

- Apply Carbofuran 3G @ 10kg or Phorate @ 4 kg per acre at 15-20 days after transplanting.

Maize

To control stem borer in 20-25 days aged maize crop apply Carbofuran 3G @ 3-4 kg per acre in leaf whorls.

Adopt frequent inter cultivation to control weeds and conserve soil moisture.

If moisture is sufficient apply urea @ 50 kg and 15-20 kg Muriate of Potash as top dressing at 25-35 days old crop.

Cotton

- If incidence of sucking pests is noticed in Cotton. To control, apply Monocrotophos and water in 1:4 ratio with soft brush on tender part of the stem at 20 and 40 days after sowing.
- Adopt frequent inter cultivation to control weeds and conserve soil moisture.
- If moisture is sufficient apply urea @ 50 kg and 15-20 kg Muriate of Potash as top dressing at 30 days old crop.

Greengram

- Incidence of sucking pests is noticed in Greengram. To control, spray Monocrotophos @ 1.6ml or Acephate @ 1.5 g per liter of water.

Redgram

- Under prevailing dry conditions incidence of Aphids is noticed. To control, spray Monocrotophos @ 1.6 ml or Acephate @ 1.5 g and Urea @ 20 g or Multi K @ 5 g per liter of water.

Castor

- Monitor for the incidence of semilooper. If noticed, adopt the following IPM measures
 - ~ Arrange birds perches @ 10 per acre
 - ~ To control early instar larvae spray Neem oil @ 5 ml per litre of water.
 - ~ Observe for natural parasitization of Microplitis in the field. If noticed, do not spray the chemical
 - ~ If no natural parasitization is observed, spray Acephate @ 1.5 g or Novoluron @ 1 ml or 1.5 g Thiodicarb per litre of water.

Vegetables

- Incidence of sucking pests is noticed in vegetables. To control, spray Imidacloprid @ 0.3 ml per litre of water.

Cattle and buffaloes

- Prevailing weather conditions are congenial for the occurrence of
 - Ranikhet disease in poultry, ET, sheep pox and PPR in Sheep
 - Hemorrhagic Septicemia, Foot and mouth disease in cattle and Buffaloes.

To prevent the diseases, vaccinate the animals