

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Weekly Crop Weather Information during 16th to 22nd July 2019

The crop weather conditions in different states as reported by the cooperating centres of AICRPAM

Maharashtra

Konkan

- Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 0.0 to 8.8 hours of bright sunshine was recorded during last week. During last week 118.2 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V., Dapoli. The maximum and minimum temperature ranged from 27.5 to 30.5 °C and 32.0 to 24.6 °C, respectively. Wind velocity ranged from 1.9 to 3.8 kmph and wind was blowing from south westerly direction. Vegetable crops is in reproductive stage and transplanting of rice and finger millet crop is in progress. Agriculture operations like fertilizer application to fruit crops, Puddling of rice field and transplanting of rice seedlings, Transplanting of finger millet seedlings, Based application of fertilizer to Rice and fingermillet Split application of urea fertilizers to brinjal, chilli vegetable crops, Support to cucurbitaceous crops is in progress. No major pest and diseases observed.

Madhya Maharashtra

- Partially cloudy to cloudy weather. Seedling stage of pearl millet and Sunflower and other Kharif crops. Long dry spell is observed. Mild attack of white grub in sugarcane.

Vidarbha

- Weekly average means (29 MW) at AICRPAM Akola centre: T max 34.9 °C (normal 31.7 °C), T min 21.8 °C (normal 23.7 °C). RH I 79% (normal 85 %), RH II 47% (normal 65%). Evaporation rate 7.6 mm (normal 4.8 mm), Wind speed 6.2 km/hr (normal 9.6 km/hr) and BSH 6.9 hrs (normal 3.7 hrs). Maximum temperature across the week was 3.3 °C above normal. Minimum temperature across the week was 1.9°C below normal. During 01 Jun ? 17 Jul Vidarbha subdivision recorded 214.4 mm (-36%) rains. Akola location recorded 166.1 mm rains (-34%) during 1 June- 17 July. Resurgent monsoon activity brought widespread rains across the region past week which benefitted earlier sowings, re-sowings and gave impetus to remaining sowing operations in the region. In Vidarbha Amravati division recorded 73%

kharif sowing (23.771 lakh ha) majorly with soybean 10.268 lakh ha, pigeonpea 3.062 lakh ha and cotton 8.923 lakh ha. Nagpur division recorded 57.0% kharif sowing (7.888 lakh ha) majorly with cotton 8.871 lakh ha, soybean 1.637 lakh ha and pigeonpea 1.000 lakh ha. In eastern Vidarbha districts under Nagpur division rice 0.316 lakh ha. Remaining kharif sowings are underway with sowing of soybean, pigeon pea, vegetables etc. Tree plantations and preparation of pits for new plantation of fruit crops being carried out Hoeing/ weeding operations underway in earlier sown. Mending of drainage channels/system in fields is being carried out. Earlier sown/ Recently sown cotton, green gram, black gram and soybean are through early vegetative/ seedling/ emergence phase depending upon the sowing time. Rice at transplanting stage in eastern districts. Acid lime, blueberry (Jamun), sapota, gourds are being harvested as per maturity of fruits. Soil moisture status is quite adequate for emergence and early establishment of sown crops and to undertake remaining kharif sowings.

Karnataka

North Interior Karnataka

- Cloudy condition prevailed with moderate rainfall in most of the places during the previous week. Sowing of kharif crops has been continued in most of places in the region and early sown kharif crops are in germination to seedling stage. Sowing of kharif crops : Pigeon pea, bajra, groundnut, chilli and onion. Inter cultivation : Greengram, bajra, groundnut and pigeon pea is in progress. Greengram is at vegetative stage. Bajra, Pigeon pea and Ground nut is at germination to seedling stage. Mild intensity of leaf miner and sucking pest in citrus, sucking pest and powdery mildew in grapes, sucking pest and bacterial blight in pomegranate, leaf curl and sucking pest in tomato is observed.

South Interior Karnataka

- State actual rainfall for during 11th July to 17th July 2019 was 42.0 mm as against the normal of 62.0 mm with (-) 33 % deviation. Whereas SIK received 13.0 mm of rainfall as against the normal of 19.0 mm leading to (-) 33 % deviation. State actual rainfall from 1st January 2019 to 17th July 2019 was 350.0 mm as against the normal of 477.0 mm, by (-) 27 % deviation. Whereas SIK received 191.0 mm of rainfall as against the normal of 280.0 mm to (-) 32 % deviation. Sowing of Kharif crops is delayed because of moisture deficit for sowing of kharif crops. Ploughing across the slope will make insitu soil moisture conservation Take up land leveling so that more rain water is conserved in the soil Intercultural operation is progress in early sowing of crops. Kharif crop is at vegetative stage. Mild intensity of sucking pest noticed in red gram.

Andhra Pradesh

Anantapur

- The maximum temperatures ranged from 34-39°C in CAP and 35-37°C in Rayalaseema and minimum temperatures were in the range of 26-29°C in CAP and 25-26°C in Rayalaseema during the week. Sugarcane is at formative to grand growth stage, seedling stage in paddy, maize is at vegetative, groundnut is at flowering stage and sesame is at vegetative to flowering stage. Minor intensity of early shoot borer and fall army worm is expected in maize, sucking pest expected in sesame.

Kerala

- In Vellanikkara, the maximum temperature ranges from 27.7 to 31.0°C, minimum temperature ranges from 21.5 to 24.0 °C. Morning relative humidity ranges from 092% to 099% and afternoon relative humidity ranges from 071% to 085%. Wind speed ranges from 1.4 to 3.3 km/h. Evaporation ranges from 0.9 to 3.0 mm. Sunshine hours range from 0.0 to 5.5 hours. 5 cm morning soil temperature ranges from 27.9 to 30.9 °C and afternoon soil temperature ranges from 33.3 to 37.5 °C. Light to heavy rainfall expected in next 5 days. Paddy is at tillering stage. Bunch emergence in Banana. Ginger is at vegetative stage. Mild intensity of bacterial leaf blight in rice, mahali disease in arecanut, bud rot in coconut, sigatoka disease in banana and fruit rot can affect vegetable crops.

Tamil Nadu

- Maximum temperature: 37.6°C (normal 37.1 °C), minimum temperature: 25.9 °C (normal 23.9°C), rainfall: Nil (normal 6.6 mm). The Maximum temperature was 0.5°C above normal across the week. The Minimum temperature was 2°C above normal across the week. General weather situation in Tamil Nadu. Tirunelveli district: Rice is in tillering to booting stage. Citrus is in fruiting stage. Summer irrigated sorghum is in harvest stage. Cotton is in flowering to boll development stage. Virudhunagar district: Summer irrigated sorghum is in harvest stage. Tuticorin district: Banana is in vegetative to fruit development stage. Citrus is in fruiting stage. Summer irrigated sorghum is in harvest stage. Rice is in tillering stage. Vegetables is in vegetative to fruiting stage. Kharif sorghum is in vegetative stage. Attack of fall army worm in sorghum, leaf hopper, white fly, pink boll worm in cotton, thrips in vegetables, canker, scab in citrus, wilt in banana, stem borer in rice, thrips in rice is observed.

Assam

- Weather during the last week was cloudy. Daily average maximum temperature was 30.9°C which was 1.5 below normal and the average daily minimum temperature was 24.8°C which was same as normal for the week. Total BSSH was 26.2 hrs with an average of 3.7 hrs. The daily average evaporation rate was 3.6 mm/day and the average daily wind speed during the week 2.3 kmph. Daily average RH during morning and afternoon hour was 97.4% and 83.6% respectively. General crop condition is good. Continuation of the transplanting of sali rice in main field, sowing of summer sesamum, sowing/planting of summer vegetables, earthing up of sugarcane is in progress. No major pests and diseases observed.

Uttar Pradesh

East Uttar Pradesh

- Monsoon is active in the region. Light to Medium rainfall occurred in the region. Temperature is normal in the region. Transplanting of Rice covered about 60% of target area. Sowing of Maize, Pigeon pea covered about 30 per cent of target area. Transplanting of rice. Weeding in direct seeded rice. Fertilizer application in sugarcane, Plantation of Fruit trees, timber etc. Rice is being just transplanted. Sugarcane is in grand growth stage. Maize is in early vegetative stage. Moisture of the soil is above normal in the region. Light intensity of gundhi bug is expected in rice. light intensity of fruit borer expected in brinjal.

Western Uttar Pradesh

- Medium to heavy Cloud coverage in the atmosphere and light to medium showers may be appear from 24 July,. Maximum and minimum temperature may be 2-30C higher to its normal. South- Easterly / South- Westerly winds may be prevailing 4.4 to 14.4 km/hr which is 4-5 kmph higher to its normal during this week. Maize, Paddy nursery , Sugarcane , and Summer vegetables are going on good condition. Paddy: Transplanting stage. Maze: Weeding. Sorghum: Sowing and Weeding. Pegionpea: Sowing. Black gram: Sowing. Green gram: Sowing. Groundnut: Sowing. Brinjal / Chilies: Plucking, marketing. Animal: Protect from common diseases.

Jharkhand

- Daily maximum and minimum temperature ranged from 33.5 to 36.2 and 23.5 to 27.2 deg C, respectively. Weekly maximum and minimum temperature were 35.1 and 25.3 deg C against its normal value of 29.1 and 26.3 deg C, respectively. General crop condition is satisfactory. Broadcasting urea on the field of rice seedling, also collection of rain runoff water from upland to medium and low land. And somewhere preparation of the land to proceed for transplanting is going on.

Giving the support to cucurbitaceous crops with poll and coconut rope and facilitate drainage in all upland crops. No pests and diseases observed.

Chhattisgarh

- General rainfall/ weather situation in the entire State A total of 26.1 mm of rainfall was recorded during the week as against the normal of 69.7 mm at Agromet observatory of IGKV, Raipur. Light to moderate rainfall expected during next 5 days. The area (in thousand ha) sown under different crops as on 15/07/2019 are as under. Rice 3677.0 (2092, 57%) Maize 230.0 (123,54%), Total Cereals 3988.57 (2221, 56%), Arhar 150.0(28, 18%), Green gram 30.50 (5.73, 19%), Black gram 170.30 (21, 12%), Horsegram 40.98 (0.01.00) Total pulses 391.78 (54.10, 14%), Soybean 120.0 (55.38, 46%), Sesame 40.0 (4.07, 10%), Sunflower 0.65 (0.0), Groundnut 65.0 (20.05, 31%), Total Oilseeds 295.65 (79.52, 27%) Total kharif crops 4820.0 (2407.36, 36%). Agriculture operations like intercultural operations in vegetables, Leafy vegetables sowing and preparation of nursery for other vegetables are going on. Need based application of insecticides in vegetables is required. Brinjal and tomato are in fruiting and picking stage. Solanaceous vegetables are at flowering/fruiting stage while crucifers are at head formation stage. Dry sown rice is in vegetative state. Low intensity of sucking pest and hoppers can affect crops like tomato, beans, cauliflower, cabbage, cowpea and brinjal.

Gujarat

- The actual maximum temperature was 2.4 °C and actual minimum temperature was 0.009 °C higher as compared to their normals. Total BSS was 54.1 hrs. with an average of 7.7 hrs. The daily average evaporation and wind speed was 5.9 mm and 8.2 km/hr respectively. The daily average RH during morning and afternoon was 84.9 % and 56.0 % respectively. Land preparation and sowing of kharif crops is in progress. Early sown crops are in early vegetative stage. Adequate moisture maintained by irrigation. No major pests and diseases observed.

Rajasthan

- Southern part received medium rainfall during this week. General crop condition is good. Maize is at 10 to 20 days. Moisture status is adequate. No pest and diseases observed.

Punjab

- The maximum temperature during the week ranged between 28.2-34.8°C and minimum temperature ranged between 23.8-28.2 °C. The morning and evening relative humidity during the week varied between 73-91 and 27-81%, respectively. The sunshine hours during the week ranged between 1.5-8.4 hrs/day. The

evaporation rate ranged between 4.0-6.4 mm day⁻¹. Daily average wind speed varied from 3.9-6.6 kmhr⁻¹. General crop condition is good. Agriculture operations like irrigation in sugarcane, cotton and paddy is being provided in areas which has not received rainfall. Basmati rice is at transplanting stage. Paddy in tillering stage. Groundnut :Needle formation. Cotton is at vegetative stage. No pests and diseases observed.

Himachal Pradesh

- The maximum ranged between 24.5 to 28.5°C which was below normal by 0.9 to 1.4 °C except 21st and 22nd July and minimum temperature ranged between 16.5 to 19.5 which was below normal by 0.2 to 3.3 °C. 82.4 rainfall was received during the week against the normal of 161.9 mm. The relative humidity varied between 71-92% and sunshine hours between 1.0-7.5 hrs/day with variable sky conditions (Octa 4-8). The evaporation rate varied between 1.4-3.3 mm per day. All Crops is performing well in entire region. Transplanting of rice is almost completed in the entire region, hand weeding in the rice, maize and soybean crops. Arrangement of fodder for their cattle and dairy animals. No pest and diseases noticed.

Jammu

- Mainly partially cloudy weather prevailed during this week with 1.2 mm rainfall. Both maximum and minimum temperatures remained above normal by 1-2 °C and ranged from 31.4 to 36.5 °C and 24.8 to 28.2 °C . The morning and evening relative humidity observed in the range of 76 to 81 % and 52 to 83 %, respectively. The total evaporation observed 59.8 mm and sunshine in the range of and 1.2 to 7.8 hrs during this period. In *Kharif* season about 68 per cent for Paddy, 93 per cent for Maize, 67 per cent for bajra 50 per cent for pulses, 92 per cent of fodder and 100 per cent of vegetable upto 17-7-2019. has been sown. Transplanting of basmati and non basmati rice crop under irrigated area. Hoeing & weeding in maize & bajra in intermediate and temperate region. Application of nitrogen fertilizer in maize, bajra and mixed fodder. Earthing up in maize crop. Rainy season plantation of Mango, citrus & guava is under progress. Mild intensity of cut worm noticed in maize.

Weather during 11th to 17th July 2019

Significant Weather Features

Advance of southwest monsoon

- Southwest Monsoon has further advanced into most parts of Haryana and Punjab on 15th July 2019. It has further advanced into remaining parts of Punjab and Haryana and some more parts of West Rajasthan on 17th July 2019.
- The Northern Limit of Monsoon (NLM) continued to pass through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Ludhiana, Kapurthala and Lat. 33°N/Long. 74.5°E during 11th to 14th July 2019. It passed through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Ferozpur and Lat. 31°N/Long. 74.5°E on 15th & 16th July 2019 and along Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Hanumangarh, Ganganagar and Lat. 30°N/Long. 73.5°E on 17th July 2019.

Low Pressure Systems

- Last week's Well Marked Low Pressure Area over East Uttar Pradesh & adjoining Bihar has weakened into a Low Pressure Area and lay over northeast Uttar Pradesh & adjoining Bihar in the beginning of the week. The Low Pressure Area has become less marked, however, its remnant as a cyclonic circulation in the mid tropospheric levels persisted over the same area on 12th; it was seen as a trough in mid tropospheric westerlies during 13th -14th over east & adjoining northeast India before getting less marked on 15th July 2019.
- This system has caused fairly widespread to widespread rainfall with heavy to very heavy and extremely heavy rainfalls at isolated places over Sub Himalayan West Bengal, Sikkim and Bihar. Heavy to very heavy rain falls at isolated places over East Uttar Pradesh during the first half of the week.

Heavy Rainfall Activity

- Heavy to Very heavy rainfall with extremely heavy falls had been reported at isolated places over Bihar and Assam & Meghalaya on three days each; over Konkan & Goa two days; over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Madhya Maharashtra on one day each during the week.

- Heavy to very heavy rainfall had been reported at isolated places over Sub-Himalayan West Bengal & Sikkim on four days; over Punjab, East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on three days each; over Uttrakhand, Haryana & Delhi, West Uttar Pradesh, Konkan & Goa and Coastal Karnataka on two days each; over Bihar, Gujarat Region, Madhya Maharashtra and Coastal Andhra Pradesh on one day each during the week.
- Heavy rainfall had been reported at isolated places over Coastal Andhra Pradesh , Tamilnadu & Puducherry and Coastal Karnataka on four days each; over West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Kerala & Mahe and Lakshadweep on three days each; over Punjab, Haryana & Delhi, Uttrakhand, Himachal Pradesh, Bihar and Andaman & Nicobar Islands on two days each ; East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Chhattisgarh, Rayalaseema and South Interior Karnataka on one day each during the week.

METEOROLOGICAL ANALYSIS

- Last week's Well Marked Low Pressure Area over East Uttar Pradesh & adjoining Bihar lay as a Low Pressure Area over northeast Uttar Pradesh & adjoining Bihar with the associated cyclonic circulation extending upto 7.6 km above mean sea level on 11th July 2019. The Low Pressure Area has become less marked, however, the associated cyclonic circulation persisted over the same area between 3.1 & 5.8 km above mean sea level on 12th; it was seen as a trough in westerlies between 3.1 & 4.5 km above mean sea level roughly along Long. 87°E to the north of Lat. 24°N on 13th; it ran roughly along Long. 90°E to the north of Lat. 24°N between 1.5 & 5.8 km above mean sea level on 14th and has become less marked on 15th July 2019.
- Last week's trough at mean sea level ran from south Punjab to Nagaland across Haryana, north Uttar Pradesh, centre of Low Pressure Area over northeast Uttar Pradesh & adjoining Bihar, Sub-Himalayan West Bengal and Assam 11th July 2019. Western end of the trough at mean sea level ran across south Punjab, Haryana and West Uttar Pradesh whereas the eastern part of the trough ran close to the foothills of the Himalayas, Sub-Himalayan West Bengal, Assam & Nagaland with another branch of it running from northwest Bihar to Northeast Bay of Bengal on 12th. The trough at mean sea level ran close to the foothills of the Himalayas with the other branch running from northeast Bihar to Northeast Bay of Bengal across Jharkhand

and Gangetic West Bengal on 13th; it ran from Punjab to Nagaland across Haryana, north Uttar Pradesh, north Bihar and Sub-Himalayan West Bengal whereas the other branch from northeast Bihar to Northeast Bay of Bengal has become less marked on 14th; it ran from Punjab to Nagaland across Haryana, north Uttar Pradesh, north Bihar and Sub-Himalayan West Bengal on 15th; it ran from northwest Rajasthan to Northeast Bay of Bengal across Haryana, South Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal on 16th and from northwest Rajasthan to Northwest Bay of Bengal across South Haryana, South Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal on 17th July 2019.

- Last week's cyclonic circulation over south Rajasthan & adjoining north Gujarat region between 5.8 & 7.6 km above mean sea level persisted on 11th July 2019 and has become less marked on 12th July 2019.
- Last week's cyclonic circulation over Gujarat region & adjoining north Maharashtra lay over south Gujarat region & neighbourhood at 4.5 km above mean sea level on 11th and it persisted over the same region on 12th. It lay over south Gujarat and neighborhood between 3.1 and 4.5 km above mean sea level on 13th and has become less marked on 14th July 2019.
- Last week's cyclonic circulation at 7.6 km above mean sea level over Southwest & adjoining West central Bay of Bengal off north Tamilnadu-south Andhra Pradesh coasts has become less marked on 11th July 2019.
- Last week's cyclonic circulation extending upto 1.5 km above mean sea level over Central Pakistan & neighbourhood lay over north Pakistan & adjoining Punjab and extended upto 0.9 km above mean sea level on 11th July 2019 and has become less marked on 12th July 2019.
- Last week's feeble offshore trough at mean sea level from Karnataka coast to Kerala coast ran from Karnataka coast to north Kerala coast on 11th & 12th July 2019. It ran from south Maharashtra coast to Karnataka coast on 13th; ran from Karnataka coast to Kerala coast on 14th & 15th; ran from Goa coast to Kerala coast 16th and from South Maharashtra coast to Karnataka coast on 17th July 2019.
- A Western disturbance as a cyclonic circulation extending upto 3.1 km above mean sea level lay over eastern parts of Iran and adjoining Afghanistan on 12th July 2019. It lay over Afghanistan and neighborhood at 3.1 km above mean sea level on 13th; it persisted as a cyclonic circulation over the same region and extended upto 3.1 km above mean sea level on 14th, 15th and 16th; it lay as a cyclonic circulation at 3.1 km

above mean sea level over North Pakistan and adjoining Jammu & Kashmir on 17th July 2019.

- A cyclonic circulation extending upto 0.9 km above mean sea level lay over northwest Uttar Pradesh and neighborhood on 13th July 2019 and it has become less marked on 14th July 2019.
- A cyclonic circulation between 3.1 & 5.8 km above mean sea level lay over coastal Tamilnadu & neighborhood tilting southwestwards with height on 13th July 2019 and it has become less marked on 14th July 2019.
- A cyclonic circulation extending upto 0.9 km above mean sea level lay over central Pakistan & adjoining Punjab on 14th July 2019 and it persisted over the region on 15th. It continued to persist over the same region and extended upto 1.5 km above mean sea level on 16th; it lay over central Pakistan & adjoining West Rajasthan and extended upto 0.9 km above mean sea level on 17th July 2019.
- A trough in westerlies ran roughly along Long. 88°E to the north of Lat. 22°N and extended upto 1.5 km above mean sea level on 15th July 2019. It ran roughly along Long. 92°E to the north of Lat. 25°N and extended upto 0.9 km above mean sea level on 16th; it was seen as a cyclonic circulation over central Assam extending upto 0.9 km above mean sea level on 17th July 2019.
- A cyclonic circulation lay over East central Arabian Sea off Karnataka coast at 5.8 km above mean sea level on 15th July 2019 and it has become less marked on 16th July 2019.
- A cyclonic circulation extending upto 0.9 km above mean sea level lay over Northeast Rajasthan & adjoining Haryana, embedded in the trough from northwest Rajasthan to Northeast Bay of Bengal on 16th July 2019; it lay over southwest Uttar Pradesh & neighbourhood extending upto 0.9 km above mean sea level, embedded in the trough from northwest Rajasthan to Northwest Bay of Bengal on 17th July 2019.
- A cyclonic circulation at 5.8 km above mean sea level lay over East central Bay of Bengal off Myanmar coast on 16th July 2019 and it has merged with the cyclonic circulation over Northwest Bay of Bengal adjoining Coastal Odisha & Gangetic West Bengal on 17th July 2019.
- A cyclonic circulation lay over Punjab & neighborhood between 3.1 & 5.8 km above mean sea level on 17th July 2019.

- A cyclonic circulation lay over Northwest Bay of Bengal adjoining Coastal Odisha & Gangetic West Bengal extending upto 7.6 km above mean sea level, tilting southwards with height on 17th July 2019.

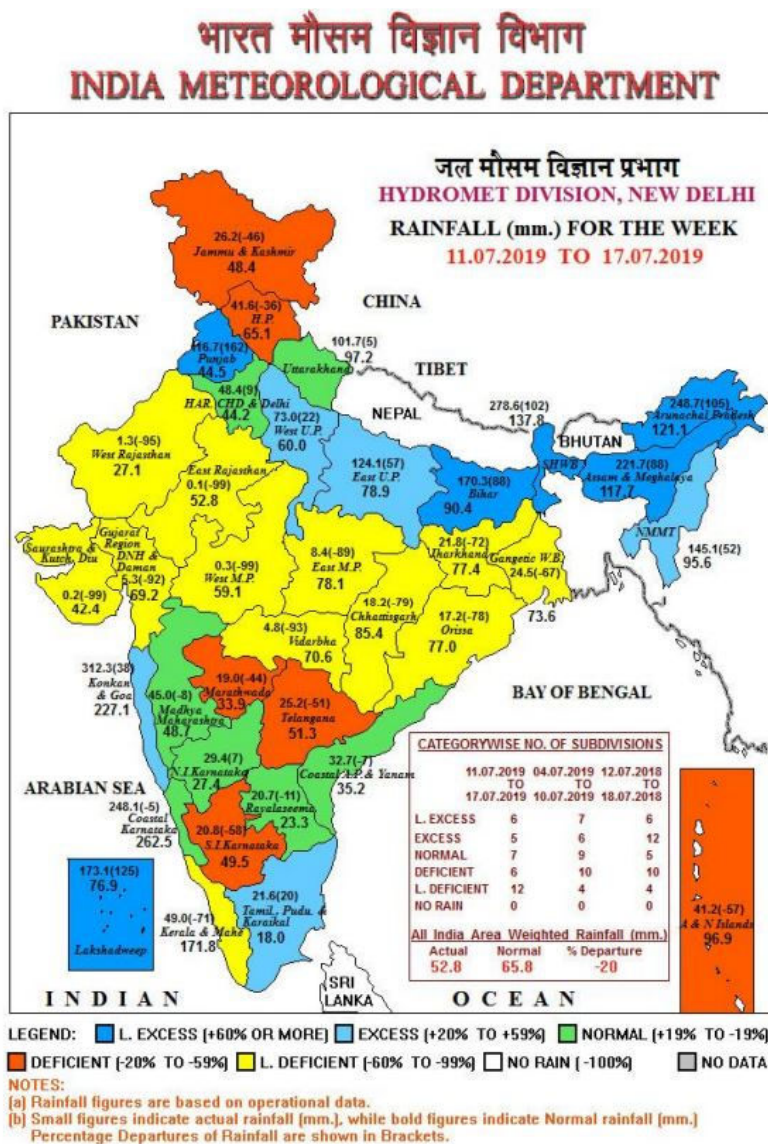


Fig-1

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

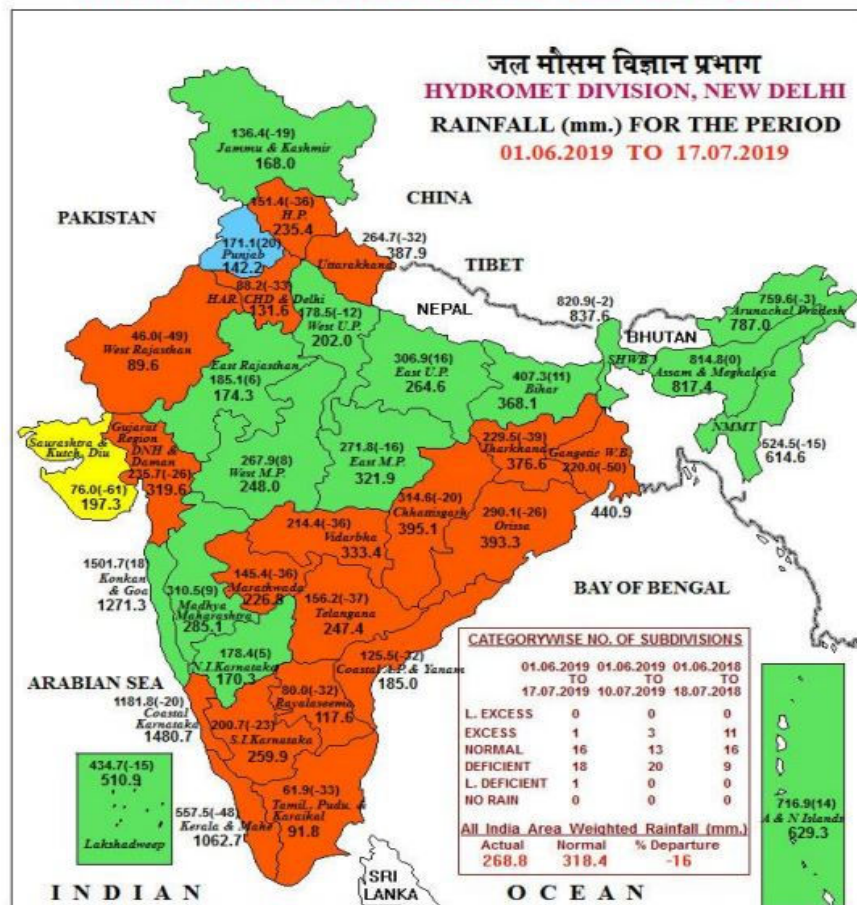


Fig-2

Table 1. State wise distribution of number of districts with large excess, excess, normal, deficient, large deficient, no rainfall and data inadequate shown (01.06.2019 to 03.07.2019)

S. NO.	STATES	PERIOD FROM : 01.06.2019 TO 17.07.2019							
		LE	E	N	D	LD	NR	ND	TOTAL
1.	A & N ISLAND (UT)	0	1	2	0	0	0	0	3
2.	ARUNACHAL PRADESH	1	0	10	3	2	0	0	16
3.	ASSAM	1	4	15	6	1	0	0	27
4.	MEGHALAYA	2	1	2	2	0	0	0	7
5.	NAGALAND	0	0	3	7	1	0	0	11
6.	MANIPUR	0	0	0	4	5	0	0	9
7.	MIZORAM	1	1	4	1	0	0	1	8
8.	TRIPURA	0	2	2	0	0	0	0	4
9.	SIKKIM	1	0	2	1	0	0	0	4
10.	WEST BENGAL	0	0	3	14	2	0	0	19
11.	ODISHA	0	0	13	16	1	0	0	30
12.	JHARKHAND	0	1	2	20	1	0	0	24
13.	BIHAR	4	10	11	13	0	0	0	38
14.	UTTAR PRADESH	5	18	32	13	7	0	0	75
15.	UTTARAKHAND	0	1	2	10	0	0	0	13
16.	HARYANA	0	1	6	6	8	0	0	21
17.	CHANDIGARH (UT)	0	0	1	0	0	0	0	1
18.	DELHI	0	0	0	1	8	0	0	9
19.	PUNJAB	7	4	6	2	1	0	0	20
20.	HIMACHAL PRADESH	0	0	3	8	1	0	0	12
21.	JAMMU & KASHMIR	1	4	7	5	3	0	2	22
22.	RAJASTHAN	1	8	10	11	3	0	0	33
23.	MADHYA PRADESH	3	13	25	9	1	0	0	51
24.	GUJARAT	0	0	7	19	7	0	0	33
25.	DADRA & NAGAR HAVELI (UT)	1	0	0	0	0	0	0	1
26.	DAMAN & DIU (UT)	0	1	0	1	0	0	0	2
27.	GOA	0	0	2	0	0	0	0	2
28.	MAHARASHTRA	1	5	8	22	0	0	0	36
29.	CHHATISGARH	0	1	10	16	0	0	0	27
30.	ANDHRA PRADESH	0	0	2	11	0	0	0	13
31.	TELANGANA	0	0	5	24	2	0	0	31
32.	TAMILNADU	1	1	7	16	7	0	0	32
33.	PUDUCHERRY (UT)	0	1	0	3	0	0	0	4
34.	KARNATAKA	0	5	14	11	0	0	0	30
35.	KERALA	0	0	0	13	1	0	0	14
36.	LAKSHADWEEP (UT)	0	0	1	0	0	0	0	1
	TOTAL	30	83	217	288	62	0	3	683
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 680 WHOSE DATA RECEIVED		5%	12%	32%	42%	9%	0%		

Table 2. Weekly Rainfall Departure (%) at different IMD subdivisions (2019)

S.No.	Meteorological Sub Division	26 Jun (26)	03 Jul (27)	10 Jul (28)	17 Jul (29)
1	Andaman & Nicobar Islands				
2	Arunachal Pradesh				
3	Assam & Meghalaya				
4	Nagaland, Manipur, Mizoram, Tripura				
5	Sub-Himalayan West Bengal & Sikkim				
6	Gangetic West Bengal				
7	Orissa				
8	Jharkhand				
9	Bihar				
10	East Uttar Pradesh				
11	West Uttar Pradesh				
12	Uttarakhand				
13	Haryana, Chandigarh & Delhi				
14	Punjab				
15	Himachal Pradesh				
16	Jammu & Kashmir				
17	West Rajasthan				
18	East Rajasthan				
19	West Madhya Pradesh				
20	East Madhya Pradesh				
21	Gujarat Region				
22	Saurashtra, Kutch & Diu				
23	Konkan & Goa				
24	Madhya Maharashtra				
25	Marathwada				
26	Vidarbha				
27	Chhattisgarh				
28	Coastal Andhra Pradesh				
29	Telangana				
30	Rayalaseema				
31	Tamil Nadu & Pondicherry				
32	Coastal Karnataka				
33	North interior Karnataka				
34	South interior Karnataka				
35	Kerala				
36	Lakshadweep				

LEGEND:

L. Excess: (+60 % or more)	
Excess: (+20 % to +59 %)	
Normal: (+19 % to -19 %)	
Deficient: (-20 % to -59 %)	
L. Deficient: (-60 % to -99 %)	
No Rain: (-100 %)	
No Data:	