All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Weekly Crop Weather Information during 13th to 19th August 2018

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

Maharashtra

Vidarbha region

Light rainfall received in Vidarbha during past week. Maximum temperature across the week was -1.2 °C below normal and the minimum temperature was 0.6 °C above normal. In Vidarbha subdivision rainfall during June 01-15 August amounted to 588.1 mm (-8%). Akola location recorded 471.3 mm rains (-1%) during 01 June-15 August. Agricultural operations like hoeing/weeding operations are underway in cotton, sorghum, pigeonpea and soybean. plant protection measures are being undertaken in cotton (sap sucking pest) and soybean (semilooper) crops. top dressing of n fertilizer is being carried out in late sown cotton. weeding/fertilization/manuring of established plantations are in progress. parthenium weed eradication drive is underway across the farmland are in progress. Dry sown cotton crop (23 MW) is at square formation/flowering stage and normal sown (26MW) cotton through true vegetative/square initiation phase. Earlier sown (24 MW) early soybean variety is at peak bloom stage. Sorghum/pigeon pea through vegetative phase. Green gram and black gram are at pod formation/pod development stage. Acid lime at harvest stage as per maturity of fruits. Light to moderate intensity of sucking pest, pink bollworm in cotton and girdle beetle/leaf eating caterpillar/stem fly in soybean crop was noticed.

Madhya Maharashtra region

Moderate cloudy weather prevailed in Madhya Maharashtra region of Maharashtra state during this week. Agriculture operations like interculturing operations like hoeing in kharif crops are in progress. The sown kharif crops viz soybean is at pod filling stage, sorghum is at panicle initiation stage, bajra, maize and pigeon pea are at development stage, green gram and black gram are in flowering to pod formation stage. Low intensity of leaf eating caterpillar in kharif crops and vegetables was noticed.

Marathwada region

Light rainfall received in Marathwada region of Maharashtra state during this week. Maximum temperature was range from 23.3 to 30.5°C and the minimum temperature was ranges from 20.5 to 22.5 °C. Agriculture operations like fertilizer application of cotton crop and hoeing and weeding operations are in progress. Soybean is

at flowering stage, sorghum is at panicle initiation stage, bajra, maize and pigeon pea are at development stage, green gram and black gram are in flowering to pod formation stage, irrigated cotton crop is flowering stage to square formation, sugarcane crop is in grand growth stage and vegetable crops are at fruiting. Low intensity of sucking pest in cotton and soybean was noticed.

Konkan region

Light rainfall received in Konkan region of Maharashtra state during this week. The maximum and minimum temperature ranged from 26.2 to 27.4 °C and 22.5 to 23.5°C respectively. Agriculture operations like transplanting of rice in completed, application of second dose of fertilizer in rice and fingermillet transplanting is in progress. Rice is in growth stage and fingermillet transplant completed stage. Low intensity of army worm, case worm and blue beetle in rice crop was noticed.

Assam

Light rainfall received in Assam state during this week. Daily average maximum temperature was 34.3°C which was 0.3°C above normal and the average daily minimum temperature was 26.8°C which was 0.1°C above normal for the week. Agriculture operations like weeding and drainage of waterlogged soil for sali rice, intercultural operations in and ginger and turmeric summer is continuing, earthing up of sugarcane. Sowing of sesamum by first fortnight of August are in progress. Sali rice is in tillering stage and sesamum is at sowing/planting stage. No major pests and diseases were noticed.

Chhattisgarh

Light rainfall received in Chhattisgarh state during this week. Chhattisgarh State received 678.3 mm rainfall against normal of 810.5 mm, (-3 %). The area (in thousand ha) sown under different crops as on 06/08/2018 are as under: total cereals 3987.51 (3611.16, 91%), total pulses 386.80 (229.3,59%), total oilseeds 302.19 (207.6, 69%) and total kharif crops 4820.0 (4151.0, 86%). Agriculture operations like in broadcasting and direct seeded rice crop biasi is going on intensively where adequate standing water available and transplanting of rice in irrigated situation. Weedicide spray in many of the districts and application of nitrogenous fertilizer at some locations in 25-day crop. Irrigation application and intercultural operations in kharif vegetables and cucurbitaceous crops. Need based application of insecticides in vegetables against aphids, thrips, fruit and pod borer and other pests. Kharif maize sowing in Northern Hill region and maize, minor millets in Bastar plateau ACZ. Inter culture operations are going on in soybean crop under rainfed situation are in progress. Rice in tillering stage and Soybean is in vegetative stage. Sugarcane crop in inter-node elongation stage. Low intensity of fruit borer and white fly leaf curling in solanaceous vegetables crops was noticed.

Uttar Pradesh

West Uttar Pradesh

Light rainfall received in West Uttar Pradesh region of Uttar Pradesh state during this week. Maximum temperature is above normal by 1.0 to 2.0°C to its normal and minimum temperature is also above normal by 2.0 to 3.0 °C to its normal. Agriculture operations like gap filling, weeding and top dressing urea in paddy, top dressing urea and spray insecticide in maze, weeding and thinning in sorghum, pigeonpea, black gram, green gram, earthing and spray insecticide groundnut and plucking, marketing and transplanting of brinjal / chilies and leafy vegetable crops are in progress. Kharif rice is in tillering stage, maze is at vegetative to silking stage, sorghum is in vegetative stage, pigeonpea is at sowing to emergence stage, blackgram , greengram are at emergence/ vegetative, groundnut is in vegetative stage, vegetables/ cucurbits are at flowering to fruiting stage. Low intensity of hispa/ leaf roller in paddy, shoot borer in maize and white grubs/ termite in groundnut crop was noticed.

Gujarat

Light rainfall received in Gujarat state during this week. The actual maximum temperature is 0.2°C and minimum temperature is 0.7°C lower as compared to normal values. Agriculture operations like weeding, interculturing early sown crops, gap filling and thinning and top dressing of nitrogenous fertilizer are in progress. Vegetative stage of timely sown crops, early sown crops are in vegetative to reproductive stage and pearl millet is in flowering stage. No major pests and diseases were noticed.

Haryana

Light rainfall received in Haryana state during this week. Maximum temperature was very close to normal till 16th August and above normal thereafter and minimum temperature was above normal. Agriculture operations like weed management in rice, hoeing and harrowing in cotton/bajra/guar/arhar, thinning in late sown bajra crops are in progress. Cotton crop at flowering/boll formation stage, rice at panicle initiation/ flowering, bajra at ear head emergence / flowering / booting as per date of sowing. No major pests and diseases were noticed.

Himachal Pradesh

Moderate rainfall received in Himachal Pradesh state during this week. The maximum temperature during the week ranged between 24.0 to 28.5°C and minimum temperature ranged between 19.0 to 21.0°C which was above normal by 0.5 to 2.6°C and 0.0 to 1.5°C, respectively. Agricultural operation like hand weeding in maize and soybean crops, arrangement of fodder for their cattle and dairy animals are in progress. Rice is in tillering stage, maize is in knee high stage, vegetables are in picking stage, kharif

vegetables are in seedling to vegetative stage and soybean is at leaf development stage. Low intensity of blast in rice crop was noticed.

Jharkhand

Light rainfall received in Jharkhand state during this week. Daily . Daily maximum and minimum temperature ranged from 24.6 to 30.4 °C and 18.2 to 22.4 °C, respectively. Weekly maximum and minimum temperature were 27.7 and 20.4 °C against its normal value of 28.8 and 19.5 °C, respectively. Agricultural operation like hoeing in urd, moong, maize ground nut and arhar crops are in progress. Early vegetative stage of all kharif crops. No major pests and diseases were noticed.

Kerala

Heavy to very heavy rainfall received in Kerala state during this week. The maximum temperature ranges from 24.0 to 29.9 °C and minimum temperature ranges from 21.0 to 22.3 °C. Due to heavy rainfall, majority of the crops, vegetables and banana are in harvesting stage are damaged. Agricultural operation like draining out of excess water from field crops when sunshine increases, apply fertilizers if it requires. Paddy is in milky stage. Low intensity of rice bug in paddy, aphids in vegetables, bud rot in coconut and sigatoka in banana was noticed.

Jammu & Kashmir

Mainly clear weather prevailed in Jammu region of Jammu & Kashmir state during this week. The maximum temperature remained normal and ranged from 31.5 to 34.5 °C and minimum temperature remained variable and ranged from 21.4 to 28.4 °C. In Kharif season about 97 % for Paddy, 98 % for Maize, 99 % for Bara 90 % for pulses, 111 % of fodder and 100 % of vegetable has been sown. Agricultural operation like application of 2nd dose of n as top dressing just before panicle initiation stage in early & normal transplanted paddy. Weed control measures in late transplanted paddy. Earthing up in late sowing maize, hoeing and weeding in maize, plant protection in pulse and maize crop. Application of 2nd top dressing of nitrogen fertilizer in maize crops are in progress. Peak vegetative stage in early transplanted rice/paddy. Jointing in normal transplanted paddy crop. Normal sown maize is at tassel emergence stage. Late sown maize is at peak vegetative stage. Moong is at initiation of flowering stage. Moderate intensity of stem borer in maize and bacterial leaf blight in cucurbits crops were noticed.

Karnataka

North Karnataka

Light rainfall received in North Interior Karnataka during this week. Agriculture operations like plant protection in cotton, pigeon pea and ground nut, harvesting of green gram and sowing of sunflower (rabi) crops are in progress. Cotton is in flowering stage,

pigeon pea is at vegetative stage, ground nut is in flowering stage and green gram is at maturity to harvesting stage. Low intensity of sucking pests in cotton/groundnut/pigeonpea, pod borer in green gram, downey mildew and anthracnose in grapes, sucking pests and bacterial blight in pomegranate and fruit borer, leaf curl in tomato was noticed.

South Karnataka

Light scattered rainfall received in South Interior Karnataka during this week. State actual rainfall was 100.0 mm as against the normal of 52.0 mm with (+) 94 % deviation. Whereas SIK received 30.0 mm of rainfall as against the normal of 18.0 mm leading to (+) 69 % deviation. Agriculture operations like shortage of rainfall for sowing of kharif crops is noticed in SIK. Redgram, maize has been sown, undertake earthing up operation. Intercultural operation in groundnut crop. Undertake residue mulch by using the residues of weeds, gliricidia and other green manure crops grown on the bunds, borders and along the drainage lines are in progress. Kharif crops are in sowing / germination to early vegetative and vegetative stage. Low intensity of sucking pests in redgram was noticed.

Tamil Nadu

Light rainfall received in Tamil Nadu state during the week. The The maximum temperature was 2.0°C below normal and the minimum temperature was 0.6 °C above normal across the week. Agricultural operations like plant protection measures for controlling pests and diseases are in progress. Chillies is in flowering to fruiting stage. Paddy is in nursery to harvest stage. Banana is in bunch development to harvest stage. Jasmine is in flowering stage. Tomato and Bhendi are in fruiting to harvest stage. Citrus is in fruiting stage. Cotton is in squaring to boll formation stage. Moderate intensity of bacterial leaf blight, stem borer in paddy, leaf webber, bud worm in jasmine, canker, scab in citrus, sucking pest in chillies and wilt in banana was noticed.

Punjab

Light rainfall received in Punjab state during this week. The maximum temperature during the week ranged between 32.0 to 35.4 °C and minimum temperature ranged between 25.0 to 28.0°C. Agricultural operations like irrigation in rice, sugarcane and sowing of maize fodder crops are in progress. Basmati rice at tillering stage, groundnut is in needle formation stage and cotton is at boll formation stage. No major pests and diseases were noticed.

Rajasthan

Moderate rainfall was observed in Rajasthan state during this week. The maximum temperature ranged from 27.5 to 32.8 °C with mean value of 30.8°C which is above normal by 1.5°C. The minimum temperature ranged from 21.5 to 25.0 °C with mean value of 23.0°C which is 0.3°C below normal value. Agricultural operations like weeding, hoeing in

maize and soybean crops are in progress. Soybean, maize, sorghum, pearlmillet, greengram and cowpea are at vegetative stage. No major pests and diseases were noticed.

Uttarakhand

Light rainfall received in Uttarakhand state during the week. Maximum temperature ranges from 21.7 to 24.4 °C and minimum temperature ranges 15.0 to 16.0°C. Agricultural operations like prepare of fields for vegetable pea and toria in mid to high altitude under rainfed condition. harvesting of solanaceous crops, harvesting of pear and apple and transplant of rainy season fruit plants, perennial fodder plants and grasses are in progress. Panicle initiation on early kharif crops like cheti dhan (rainfed), barnyard millet, Amaranthus. Most of kharif crops like fingermillet, paddy (irrigated), pulses etc are in stem elongation/vegetative growth stage and cucurbits crops are in flowering stage, tomato, capsicum, brinjal are in fruiting stage. No major pests and diseases were noticed.

West Bengal

Light rainfall received in West Bengal state during the week. Maximum temperature ranges from 29.7 to 35.2 °C and minimum temperature ranges 26.9 to 27.5 °C. Agricultural operations like transplanting is continuing in flood prone area for late sown Aman rice, kharif vegetables like brinjal, okra, tomato, chilli, seedbed management and transplanting in low land and intercultural operations in upland paddy crops are in progress. Kharif rice is in tillering stage, vegetables like; chilli, tomato, okra are at seedling stage and kharif rice is also at seedling stage. Low intensity of fruit fly in vegetable crop was noticed.

Weather during 09th to 15th August 2018

Significant Synoptic Features:

- A low pressure area has formed over North West Bay of Bengal and adjoining Coastal areas of West Bengal & Odisha which subsequently concentrated into a Depression and lay over Coastal Odisha and neighbourhood towards the end of the week. Under its influence, fairly widespread to widespread rainfall activity with heavy to very heavy falls had been reported from parts of east and adjoining central India.

- Strengthening of the monsoon flow due to the formation of the low pressure system has caused widespread intense rainfall activity over south peninsular India.

- Western part of the monsoon trough remained north of its normal position for about three days during the week. Under its influence, fairly widespread to widespread rainfall activity with heavy to very heavy falls had been reported from Western Himalayan Region and adjoining plains of northwest India.

- Remnants of the low pressure area of the previous week has caused fairly widespread to widespread rainfall activity with isolated heavy falls over Madhya Pradesh and East Rajasthan during the beginning of the week.

Monsoon Activity:

- Southwest monsoon had been vigorous over Kerala on two days and over Himachal Pradesh, Telangana, Coastal Andhra Pradesh, Coastal & South Interior Karnataka and Tamilnadu & Puducherry on one day each during the week.

- It had been active over South Interior Karnataka on four days; over Coastal Andhra Pradesh, Andaman & Nicobar and Kerala on three days each; over Himachal Pradesh, Jammu & Kashmir, Odisha, Sub-Himalayan Wet Bengal & Sikkim, Chhattisgarh, Rayalaseema and Coastal Karnataka on two days each and over Uttarakhand, Punjab, Vidarbha, Telangana, North Interior Karnataka and East Rajasthan on one day each during the week.

Heavy Rainfall Activity:

- Heavy to very heavy rain with extremely heavy falls had been reported over South Interior Karnataka and Kerala on two days each and over Assam & Meghalaya, Himachal Pradesh, Odisha, Vidarbha, Telangana and Tamilnadu& Puducherry on one day each during the week.

- Heavy to very heavy rain had been reported over Coastal Karnataka on four days; over South Interior Karnataka on three days; over Chhattisgarh , Himachal Pradesh, Odisha and Uttarakhand on two days each; over Coastal Andhra Pradesh, Jammu & Kashmir, East Uttar

Pradesh , Sub-Himalayan West Bengal & Sikkim, Punjab, Haryana , Chandigarh & Delhi, Konkan & Goa and Kerala on one day each during the week.

Temperature:

- The highest maximum temperature of 39.4°C had been recorded at Churu (West Rajasthan) on 15th August 2018, over the plains of the country during the week.

Meteorological Analysis

- The axis of monsoon trough at mean sea level passed through Bikaner, Sawai Madhopur, Shivpur, center of the low pressure area over central parts of north Madhya Pradesh & neighbourhood, Pendra and Bhubaneswar and thence eastsoutheastwards to East Central Bay of Bengal on 9th August 2018. It passed through Anupgarh, Alwar, Khajuraho, Churk, Daltonganj, Jamshedpur, Digha and thence southeastwards to East Central Bay of Bengal on 10th ; passed through Amritsar, Patiala, Pilibhit, Gonda, Azamgarh, Jamui, Bardwan, Digha and thence southeastwards to Northeast Bay of Bengal 11th; passed through Amritsar, Patiala, Hardoi, Varanasi, Daltonganj, Bhubaneswar and thence southeastwards to Eastcentral Bay of Bengal on 12th; passed through Amritsar, Patiala, Delhi, Hamirpur, Churk, Daltonganj, Jamshedpur, centre of low pressure area over Northwest Bay of Bengal off West Bengal Coast and thence southeastwards to Eastcentral Bay of Bengal on 13th and it passed through Ferozpur, Hissar, Aligarh, Banda, Daltonganj, Jamshedpur, centre of Well Marked Low pressure area over Northwest Bay of Bengal off West Bengal - north Odisha coasts and thence eastsoutheastwards to Eastcentral Bay of Bengal on 14th and passed through Anupgarh, Hissar, Aligarh, Banda, Ambikapur, Rourkela, centre of the depression over coastal Odisha & neighbourhood and thence eastsoutheastwards to Eastcentral Bay of Bengal on 15th August 2018.

- Last week's the low pressure area over East Madhya Pradesh & neighbourhood lay over central parts of north Madhya Pradesh and neighbourhood with associated cyclonic circulation extending upto 4.5 km above mean sea level on 9th August 2018.the low pressure area became less marked, however, its remnant cyclonic circulation lay over southeast Uttar Pradesh and extended upto 3.6 km above mean sea level on 10th.It has become less marked on 11th August 2018.

- Last week's cyclonic circulation over southeast Rajasthan and neighbourhood persisted and was seen between 1.5 km & 5.8 km above mean sea level, tilting southwards with height on 9th August 2018 and it has become less marked on 10th August 2018.

- Last week's cyclonic circulation over South East Arabian Sea and adjoining Lakshadweep area persisted and was seen at 5.8 km above mean sea level on 9th August 2018 and it has become less marked on 10thAugust 2018.

- Last week's cyclonic circulation over Jammu & neighbourhood was seen as a trough between 3.1 & 5.8 km above mean sea level over the same region on 9th August 2018. It ran roughly along Long 77 °E to north of Lat. 30°N at 5.8 km above mean sea level on 10th; It was seen as a cyclonic circulation over northern parts of Jammu & Kashmir and neighbourhood at 5.8 km above mean sea level on 11th and it has become less marked on 12th August 2018.

- A cyclonic circulation lay over West-Central Bay of Bengal & adjoining south Coastal Andhra Pradesh at 7.6 km above mean sea level on 9th August 2018. It persisted and was seen at 5.8 km above mean sea level 10th; It lay over south Odisha - north Andhra Pradesh coasts between 3.1 km & 5.8 km above mean sea level , tilting southwestwards with height on 11th; It lay over north coastal Odisha & neighbourhood and extended upto 7.6 km above mean sea level, tilting south southwestwards with height on 12th; Under its influence, a low pressure area has formed over North-West Bay of Bengal off West Bengal Coast with the associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height on 13th.It lay as a Well Marked Low Pressure Area over North-West Bay of Bengal off West Bengal-north Odisha coasts with the associated cyclonic circulation extending upto 7.6 km above mean sea level , tilting southwestwards with height on 14th. It has concentrated into a Depression and lay over coastal Odisha & neighbourhood near Lat. 20.0°N and Long. 86.0°E, about 30 Km eastsoutheast of Bhubaneswar on 15th August 2018.

- A cyclonic circulation lay over south Gujarat & neighbourhood between 3.1 km & 5.8 km above mean sea level, tilting southwards with height on 10th August 2018 and it has become less marked on 11th August 2018.

- A cyclonic circulation lay over north Odisha & neighbourhood between 3.1 km & 3.6 km above mean sea level on 10th August 2018 it has merged with the cyclonic circulation over south Odisha - north Andhra Pradesh coasts on 11th August 2018.

- A trough ran from Jharkhand to Westcentral Bay of Bengal off Andhra Pradesh coast across Odisha at 1.5 km above mean sea level on 11th August 2018. It ran from Bihar to western parts of Gangetic West Bengal at 0.9 km above mean sea level on 12th and has become less marked on 13th August 2018.

- An east-west shear zone ran roughly along Latitude 10°N at 7.6 km above mean sea level across south peninsular India on 11th August 2018 and became less marked on 12th August 2018.

- A cyclonic circulation lay over northern parts of Haryana & neighbourhood at 0.9 km above mean sea level on 11th August 2018. It lay over Punjab and adjoining Haryana & Himachal Pradesh at 0.9 Km above mean sea level on 12th and it has become less marked on 13th August 2018.

- A cyclonic circulation between 0.9 km & 1.5 km above mean sea level lay over west Assam & adjoining Sub-Himalayan West Bengal extending upto 1.5 km above mean sea level on 11th August 2018. It lay over Assam & neighbourhood on 12th & 13th and it has become less marked on 14th August 2018.

- A cyclonic circulation at 7.6 km above mean sea level lay over East-Central Arabian Sea off Karnataka coast on 13th August 2018 and it has become less marked on 14th August 2018.

- A cyclonic circulation at 0.9 km above mean sea level lay over East Uttar Pradesh & adjoining Bihar on 13th August 2018. It persisted over the same region and was seen at 1.5 km above mean sea level on 14th. It lay over East Uttar Pradesh at 3.1 km above mean sea level on 15th August 2018.

- A cyclonic circulation at 3.1 km above mean sea level lay over central parts of Rajasthan & neighbourhood on 13th August 2018 and over East Rajasthan and neighbourhood between 3.1 km & 3.6 km above mean sea level on 14th.It has merged with the trough from the cyclonic circulation associated with the depression over coastal Odisha & neighbourhood to southeast Rajasthan on 15th August 2018.

- A cyclonic circulation between 3.1 & 4.5 km above mean sea level lay over Jammu & Kashmir and adjoining Pakistan on 13th August 2018. It lay over Jammu & Kashmir and neighbourhood between 3.1 km & 5.8 km above mean sea level on 14th and has become less marked on 15th August 2018.

- A feeble off shore trough at mean sea level lay off Karnataka-north Kerala coasts on 14th August 2018 and it ran from south Maharashtra coast to Kerala coast 0n 15th August 2018.

- A trough ran from the cyclonic circulation associated with the Depression over coastal Odisha & neighbourhood to southeast Rajasthan across south Chhattisgarh and south Madhya Pradesh between 3.1 and 5.8 km above mean sea level on 15th August 2018.

- A cyclonic circulation between 3.1 and 5.8 km above mean sea level lay over northern parts of Punjab & neighbourhood on 15th August 2018.

Average rainfall during the week

The All India area weighted rainfall during the week 58.9 mm was 6% below normal (62.5 mm).

The subdivision-wise weekly rainfall distribution is presented in Fig.1. Rainfall was Large excess in 6, excess in 4, normal in 6, deficit in 15, Large deficit in 5 and no rain in 0 out of 36 meteorological sub-divisions.

Cumulative Seasonal rainfall (1st June to 15thAugust 2018)

The cumulative seasonal rainfall during 1st June to 15th August 2018 over the country as a whole was 533.5 mm which is 2% below normal rainfall of 589.2 mm.

The subdivision-wise seasonal rainfall distribution is presented in Fig. 2. Rainfall was Large excess in 0, excess in 1, normal in 25, deficit in 10 and L. deficit in 0 and no rain in 0 out of 36 meteorological sub-divisions.

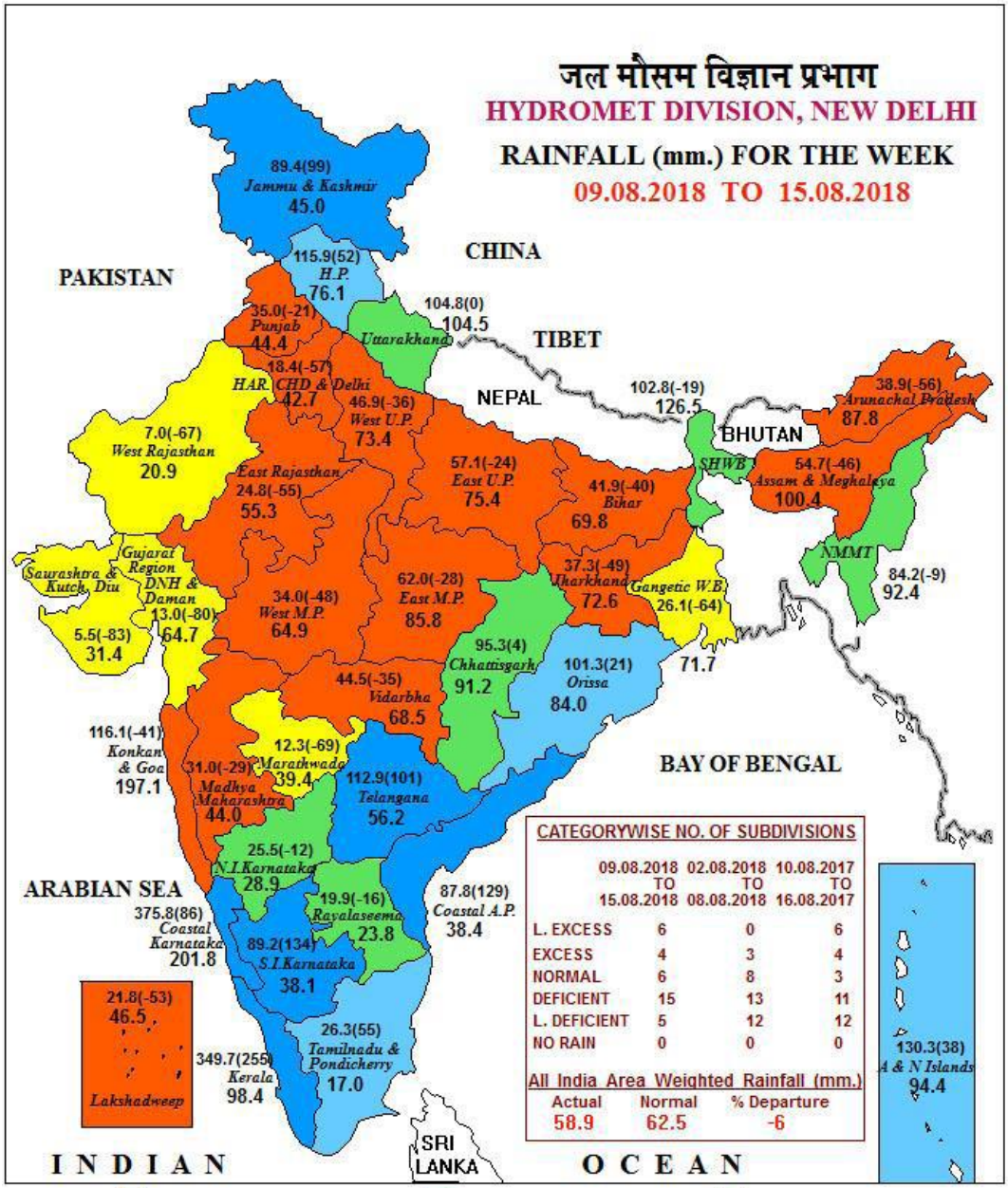
State-wise distribution of rainfall in number of districts with large excess, excess, normal, deficient, large deficient and no rainfall during monsoon season (1st June to 15thAugust 2018)

In the country, 2% districts received large excess, 14% districts received excess and 43% districts normal rainfall during monsoon season so far. However, 38% districts received deficient, 3% districts received large deficient rainfall and 0% districts received no rainfall and 0 districts received no data. (Table-1).

Weekly rainfall departure (%) at different IMD subdivisions (2018)

During the week under report 6 Sub-divisions viz.; Jammu & Kashmir, Telangana, Coastal Andhra Pradesh, South Interior Karnataka, Coastal Karnataka and Kerala received large excess rainfall, 4 Sub-divisions viz.; Himchal Pradesh, Odisha, Tamil Nadu & Puducherry and Andaman & Nicobar Islands received excess rainfall, 6 Sub-divisions viz.; Uttarakhand, Sub Himalayan West Bengal, Nagaland, Manipur, Mizoram and Tripura, Chhattisgarh, North Interior Karnataka and Rayalaseema received normal rainfall and remaining 20 Sub-divisions received either deficit / large deficit / no rainfall. (Table-2).

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

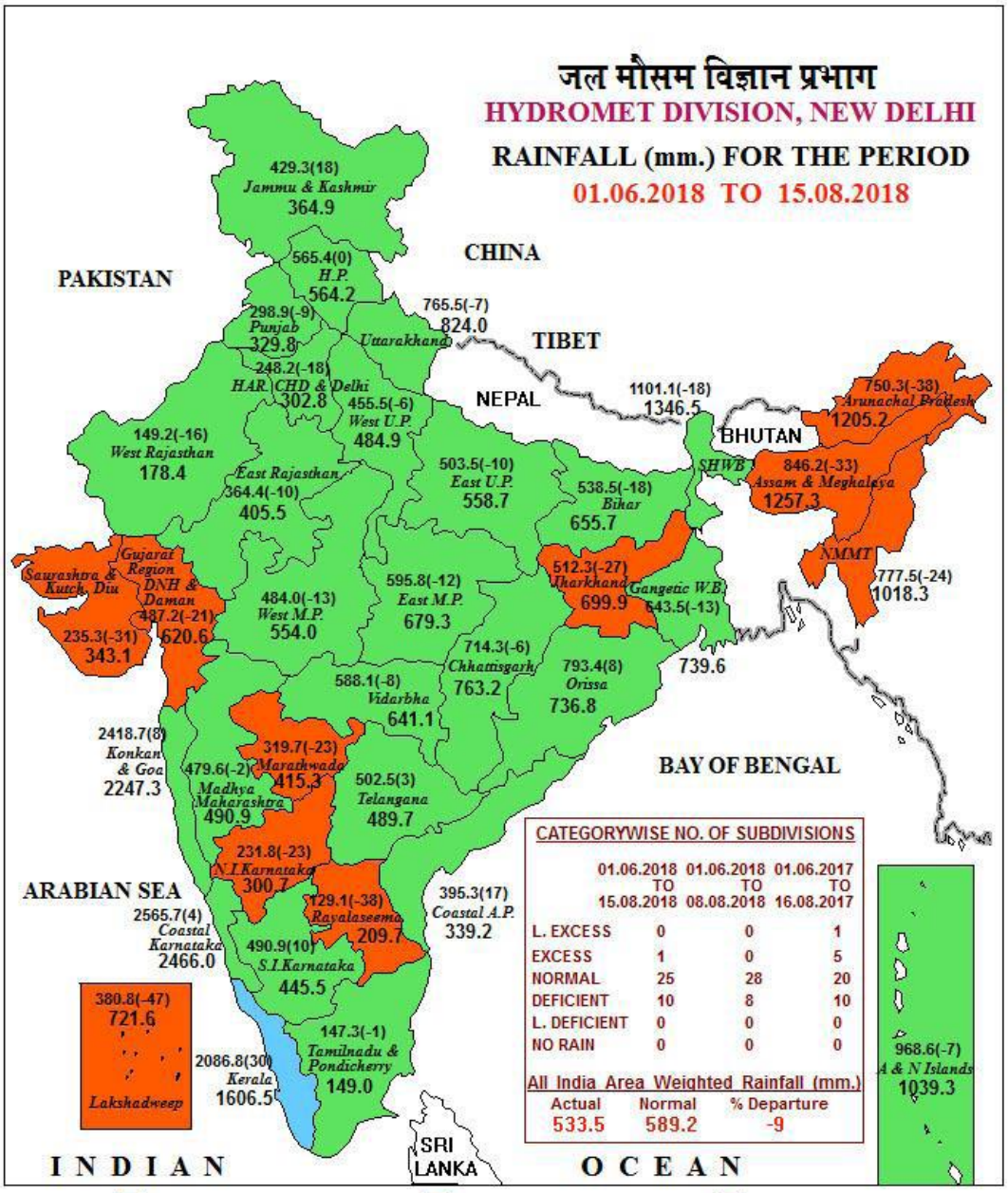


LEGEND: L. EXCESS (+60% OR MORE) | EXCESS (+20% TO +59%) | NORMAL (+19% TO -19%) | DEFICIENT (-20% TO -59%) | L. DEFICIENT (-60% TO -99%) | NO RAIN (-100%) | NO DATA

NOTES:
(a) Rainfall figures are based on operational data.
(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

Fig-1

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



NOTES:
(a) Rainfall figures are based on operational data.
(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

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 (01.06.2018 to 15.08.2018)

S.NO.	STATES	PERIOD FROM : 01.06.2018 TO 15.08.2018							
		LE	E	N	D	LD	NR	ND	TOTAL
1.	A & N ISLAND (UT)	0	0	3	0	0	0	0	3
2.	ARUNACHAL PRADESH	1	0	2	7	3	0	3	16
3.	ASSAM	0	0	12	13	1	0	1	27
4.	MEGHALAYA	0	0	2	4	0	0	1	7
5.	NAGALAND	0	2	1	2	2	0	4	11
6.	MANIPUR	0	0	1	2	2	0	4	9
7.	MIZORAM	1	1	2	1	0	0	4	9
8.	TRIPURA	0	0	1	3	0	0	0	4
9.	SIKKIM	0	1	3	0	0	0	0	4
10.	WEST BENGAL	0	0	11	8	0	0	0	19
11.	ODISHA	1	7	20	2	0	0	0	30
12.	JHARKHAND	0	1	6	16	1	0	0	24
13.	BIHAR	0	2	12	24	0	0	0	38
14.	UTTAR PRADESH	0	14	29	25	4	0	0	72
15.	UTTARAKHAND	1	1	7	4	0	0	0	13
16.	HARYANA	0	1	11	9	0	0	0	21
17.	CHANDIGARH (UT)	0	0	1	0	0	0	0	1
18.	DELHI	0	0	4	5	0	0	0	9
19.	PUNJAB	0	3	10	6	1	0	0	20
20.	HIMACHAL PRADESH	0	5	4	3	0	0	0	12
21.	JAMMU & KASHMIR	4	9	4	2	0	0	3	22
22.	RAJASTHAN	0	4	18	11	0	0	0	33
23.	MADHYA PRADESH	0	5	31	15	0	0	0	51
24.	GUJARAT	1	4	6	17	5	0	0	33
25.	DADRA & NAGAR HAVELI (UT)	0	0	1	0	0	0	0	1
26.	DAMAN & DIU (UT)	1	0	1	0	0	0	0	2
27.	GOA	0	0	2	0	0	0	0	2
28.	MAHARASHTRA	0	3	21	12	0	0	0	36
29.	CHHATISGARH	0	3	17	7	0	0	0	27
30.	ANDHRA PRADESH	0	5	2	6	0	0	0	13
31.	TELANGANA	0	7	13	11	0	0	0	31
32.	TAMILNADU	3	1	9	18	1	0	0	32
33.	PUDUCHERRY (UT)	0	0	0	2	0	0	2	4
34.	KARNATAKA	0	4	11	14	1	0	0	30
35.	KERALA	1	10	3	0	0	0	0	14
36.	LAKSHADWEEP (UT)	0	0	0	1	0	0	0	1
TOTAL		**14**	**93**	**281**	**250**	**21**	**0**	**22**	**681**
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 659 WHOSE DATA RECEIVED		**2%**	**14%**	**43%**	**38%**	**3%**	**0%**		

Table 2.Weekly Rainfall Departure (%) at different IMD subdivisions (2018)

S.No.	Meteorological Sub Division	27 Jun (26)	04 Jul (27)	11 Jul (28)	18 Jul (29)	25 Jul (30)	01 Aug (31)	8 Aug (32)	15 Aug (33)
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:	