All India Coordinated Research Project on Agrometeorology

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Weekly Crop Weather Information during 01st to 07th January 2019

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

Maharashtra

Vidarbha Region

Dry weather prevailed in Vidarbha region of Maharashtra state during this week. Maximum temperature across the week was 0.8 °C above normal and the minimum temperature was 1.6°C below normal. Agriculture operations like rainfed cotton end phase picking is in progress. Irrigation/top dressing of N fertilizer to timely sown (November first fortnight) wheat crop underway. Seed sowing of radish, carrot, leafy vegetables and onion nursery is being carried out. Need based irrigation scheduled to irrigated rabi crops. Need based plant protection is being undertaken in pigeon pea/safflower/chickpea. Harvesting of orange (ambia bahar) /guava/papaya/sapota as per maturity of fruits in progress. Irrigation and basin mulching of established and new plantations are in progress. Late pigeon pea at pod formation/grain filling stage; mid late pigeonpea at physiological maturity. Timely sown chickpea at pod formation/seed formation stage. Late sown safflower and chickpea crops are at late vegetative stage. Rainfed cotton crop is at last picking stage. In rainfed castor secondary spike at seed development stage. Mustard crop is at flowering stage. Timely sown wheat crop is at crown root initiation / tillering stage. Guava/papaya / ber fruits at harvest stage.Low to moderate intensity of pod borer in pigeonpea and chickpea crop was noticed.

Marathwada Region

Dry weather prevailed in Marathwada region of Maharashtra state during this week. The Maximum temperature was range from 29.2 to 31.6 °C and the minimum temperature was ranges from 4.1 to 14.0 °C. Agriculture operations like irrigation, weeding, hoeing and plant protection measures are underway in rabi crops based on need. Plant protection measures are being undertaken in rabi crops based on need or attack of pests are in progress. Chickpea crop is in pod formation to pod development stage. Rabi sorghum is in flag leaf stage to panicle initiation stage. Wheat crop is tillering to panicle initiation stage. Low to moderate intensity of pod borer in pigeonpea crop was noticed.

Madhya Maharashtra Region

Dry weather prevailed in Madhya Maharashtra region of Maharashtra state during this week. Agriculture operations like intercultural operations like Weeding,

manuring/fertilization and basin mulching of 1-5 years plantations, plant protection sprays in pigeonpea and horticultural crops. Interculturing operations in early sown rabi crops are in progress. Rabi sorghum is at grain filling stage. Moderate intensity of aphids in safflower crop was noticed.

Konkan Region

Dry weather prevailed in Konkan region of Maharashtra state during this week. The Maximum temperature was range from 31.2 to 34.0 °C and the minimum temperature was ranges from 9.0 to 11.0 °C. Agriculture operations like irrigation to pulse and oil seed and fruit crop at an interval of 7-8 days, schedule spray of IMP for tea mosquito bug on cashew nut at the time of flowering and schedule spray of IMP for hopper on mango at the time of flowering are in progress. Vegetative of pulse crop on residual moisture & groundnut crop, vegetative stage in watermelon, mango vegetative, flowering and initiation of fruit development and cashew nut flowering and initiation of fruit. Low intensity of anthracnose in mango and thrips, tea mosquito bug in cashew was noticed.

Assam

Dry weather prevailed in Assam state during this week. The daily average maximum temperature was 23.3°C which is 0.6 °C above normal and the average daily minimum temperature was 8.9°c which is 0.1 °C below normal for the week. Agriculture operations like harvesting of sali rice completed, transplanting of boro rice, harvesting continued in sugarcane, harvesting of early planting potato and other tuber crops. Earthing up and other intercultural operations in rabi maize and late planting potato crops are in progress. Rapeseed and mustard are in flowering to pod formation stage, potato is in tuber formation in late plantings, rabi maize is in cob formation and early maturity stages and rabi vegetables are in maturity / harvesting stages. No major pests and diseases were noticed.

Chhattisgarh

Dry weather prevailed in Chhattisgarh state during this week. The area (in thousand ha) sown under different crops under: Total Cereals 348.25 (191.10, 55%), total pulses 923.99 (702.25%), total oilseeds 296.29 (187.52, 63%) and total Rabi crops 1830.00 (1252.82, 68%). Agriculture operations like need based application of insecticides in vegetables against aphids, thrips, fruit and pod borer and other pests. Plant protection measures as per need basis in all rabi crops where pest level above ETL are in progress. Wheat crop is in CRI to tillering growth stage and lathyrus crops are in maximum in vegetative to pre flowering stage. Low intensity of fruit borer, white fly and leaf curling in solanaceous vegetables were noticed.

Bihar

Dry weather prevailed over the entire part of Bihar. Maximum temperature ranged from 21.0 to 25.0 °C and the minimum from 4.5 to 8.5°C. Agriculture operations like irrigation in rabi crops mainly in wheat, maize, potato, and vegetables. Weeding and eatrhingup in potato and transplanting of onion crops are in progress. Late sown wheat in CRI stage. Normal sown wheat crop is in maximum tillering stage. Rabi maize is in knee high stage, toria, pigeon pea, gram, pea crops are in flowering stage. Potato in vegetative stage. No major pests and diseases were noticed.

Gujarat

Dry weather prevailed in Gujarat state during this week. The actual maximum temperature is 1.0°C and minimum temperature is 4.1°C lower as compared to normal values. Agriculture operations like weeding, interculturing in transplanted vegetables is in progress. Weeding and interculturing in rabi crops are in progress. Tomato is in fruiting/picking stage. Mustard is in pod development stage, wheat is in tillering stage, pigeon pea is in flowering/pod development stage and chickpea is in vegetative stage. No major pests and diseases were noticed.

Haryana

Light rainfall received in Haryana state during the week. Maximum temperature was recorded above the normal from 1st to 3rd January and below normal thereafter during the period. Minimum temperature was recorded below normal on 1st & 3rd January while above the normal during rest of the days during the period. Agriculture operations like irrigation irrigation in mustard crop as per crop needs. Intercultural operation, weed management and irrigation as per crop needs in wheat & barley crops are in progress. Mustard is at flowering and pod development stage as per date of sowing. Late sown wheat & barley crop at sowing stage. Wheat & barley at tillering to CRI stage as per date of sowing. No major pests and diseases were noticed.

Himachal Pradesh

Light rainfall received in Himachal Pradesh state during this week. The maximum temperature during the week ranged between 7.0 to 19.0°C and minimum temperature between 2.5 to 6.0°C which was below normal by 0.7 to 4.9°C. Agriculture operations like arrangement of fodder for their cattle and dairy animals, transplantation of onion, cabbage and cauliflower crops are in progress. Wheat crop are at leaf development stage, rapeseed and mustard are at leaf development stage and winter vegetables are at flowering stage. No major pests and diseases were noticed.

Kerala

Dry weather prevailed in Kerala state during this week. The maximum temperature ranges from 30.5 to 32.7 °C and minimum temperature ranges from 17.9 to 21.6 °C. Agriculture operations like irrigation and weeding in paddy fields are in progress. Fruiting stage in vegetables. Moderate intensity of spindle bug in areca nut, red palm weevil in coconut, stem borer & sheath blight in paddy and stem fly in bitter gourd crops was noticed.

Jammu & Kashmir

Light rainfall received in Jammu region of Jammu & Kashmir state during this week. The maximum temperature remained above normal by 1.0 °C and ranged from 15.6 to 20.5 °C and minimum temperature it remained variable and ranged from 2.2 to 9.2 °C. In Rabi season about 95 % for wheat, 89 % of pulses, 97 % of oilseed, 100 % of vegetable and 97 % of fodder has been sown. Agriculture operations like weed control measures in early and normal sown wheat crop, application of 2nd dose of urea as top dress in late sown wheat, plant protection measures in mustard, vegetable and pulses crop, transplanting of onion and protection of young fruit plants from cold/low temperature are in progress. Normal sown mustard is at flowering stage. Early sown mustard is at pod flowering stage. Toria crop is at maturity stage. Normal sown wheat is at tillering stage. Late sown wheat is at emergence and pulse crop is at flowering stage. Moderate intensity of collar rot and root rot in gram crop was noticed.

Karnataka

South Karnataka

Dry weather prevailed in South Karnataka region of the state during this week. State actual rainfall 0.0 mm as against the normal of 0.3 mm with (-) 90 % deviation. Whereas SIK received 0.0 mm of rainfall as against the normal of 0.3 mm leading to (-) 97 % deviation. Agricultural operation like harvesting of maize and redgram crops, cleaning, drying and storage of crops are in progress. Rabi crops are at maturity stage. Moderate intensity of sucking pest in pulse crops was noticed.

Odisha

Dry weather prevailed in Odisha state during the week. Agricultural operations like harvesting of long duration paddy is almost completed, raising of nursery bed and land preparation for summer paddy is going on, harvesting and planting of sugarcane, sowing of rabi crops like cereals, pulses, oilseeds, vegetables and spices crops are under progress. Harvesting stage of late rice. Harvesting stage of sugarcane, ragi, arhar. Pegging stage of rabi groundnut. Fruiting to harvesting stage of brinjal, okra and cucurbits, cowpea. Harvesting stage of turmeric, zinger, colocasia and yam. Vegetative stage of

sunflower, rabi pulses. Low intensity of bacterial leaf blight, leaf folder/case worm, yellow stem borer in paddy crop was noticed.

Punjab

Light rainfall received in isolated places of Punjab state during the week. The maximum temperature ranged from 17.0 to 21.2 °C and minimum temperature ranged from 4.0 to 10.2°C. Agricultural operations like irrigation in wheat, sarson and sowing of Sunflower varieties like PSH 1962, DK 3849, PCH 996, PSH 569, PSFH 118 and SH 3322 is in progress. The rabi season crops are in vegetative growth period and mustard is in flowering stage. No major pests and diseases were noticed.

Rajasthan

Severe cold waves prevailed in in Rajasthan state during the week. The lowest temperature was recorded at Fatehpur (Sikar) -4.2 °C & -4.5 °C on 28th & 29th December respectively and Rajasamand -1.1 °C & Churu -0.6 °C on 29th December Mount Abu (Sirohi) -0.5 °C on 31st December. The min. temp. range from 1.1 to 6.0 with mean value of 3.6 which was 2.2 degree below normal. maximum temperature ranged from 21.5 to 27.0 °C with mean value of 23.8°C which was 0.2 °C below the normal value. The minimum temperature ranged from 1.1to 6.0°C with mean value of 3.6°C which was 2.20.1 °C below normal. Agricultural operations like irrigation in wheat, mustard and oat. Plant protection measures in rabi crops, top dressing of urea in wheat and weed control in wheat crops are in progress. Mustard at flowering to seed development stage. Cumin at flowering to seed formation stage. Wheat at tillering stage. Oat at first cutting stage. Gram at grain development stage. Moderate intensity of aphids in mustard crop was noticed.

Tamil Nadu

Dry weather prevailed in Tamil Nadu state during the week. The maximum temperature is 30.7°C (normal 31.0°C) and minimum temperature is 16.0°C (normal 18.6°C). Agricultural operation like plant protection measures for controlling pests and diseases are in progress. Paddy is in tillering to panicle initiation stage. Cotton is in flowering to square development stage. Maize and Sorghum are in milking / cob formation stage. Chilies is in vegetative stage. Pulses are in (Black gram and Green gram) harvest stage. Moderate intensity of thrips in paddy, leaf hopper and wilt in cotton and army worm in maize and sorghum crop was noticed.

Uttarakhand

Dry and cool weather prevailed in Uttarakhand state during the week. Both maximum temperature and minimum temperatures are below normal. Agricultural operations like weeding and hoeing are in progress. Early sown wheat is in CRI stage while late sown wheat is being germinating stage. No major pests and diseases were noticed.

West Bengal

Dry weather prevailed in West Bengal state during the week. Maximum temperature ranged from 23.5 to 25.6°C and minimum temperatures ranged from 8.0 to 9.0°C. Agricultural operations like intercultural operations and FYM application along with main field preparations are going on and for seed bed avoid stagnant water or remove water in evening time and give irrigation in the morning in boro rice, intercultural operations as well as harvesting of vegetables like brinjal, tomato, okra, bitter gourd, cucumber and chilli. Land preparation and seed sowing of onion and coriander and weeding in Bengal gram and pigeonpea are in progress. Potato is in tuber development and tuber bulking stage and late sown varieties are in stolon initiation stage. Boro rice is in seedling stage. vegetables and all gourds are in vegetative to fruiting stage. Cabbage & cauliflower are at maturity stage. Chilli is in vegetative to fruiting stage. Mustard plants are in vegetative stage and Bengal gram and pigeonpea in 1st flowering stage. Low intensity of aphids in mustard crop was noticed.

Weather during 27th December 2018 to 02nd January 2019

Significant Weather Features:

- In the absence of active Western Disturbances, the severe cold wave conditions persisted over major parts of northwest India during the first half of the week. It also extended towards central India, interior parts of peninsular India and east India during this period.

- However, the severity and spatial extent of the cold wave conditions gradually reduced during the second half of the week, in association with the changes in wind, humidity and cloud cover resulted from an active Western Disturbance, which affected western Himalayan region and adjoining plains towards the end of the week.

Cold wave/cold day:

- Severe cold wave conditions occurred in some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and north Rajasthan on a few days and at isolated pockets over west Madhya Pradesh, Jharkhand, Bihar, Saurashtra & Kutch, Odisha, Vidarbha, Telangana and north interior Karnataka on one or two days; cold wave conditions occurred in many parts of Punjab, north Rajasthan and Haryana, Chandigarh & Delhi on a few days, in some parts on one or two days and at isolated pockets on many days over west Uttar Pradesh, east Madhya Pradesh, Chhattisgarh and on a few days over Gujarat state, Bihar, Jharkhand, Gangetic west Bengal, Odisha, Marathwada, Vidarbha, north coastal Andhra Pradesh, Telangana and north interior Karnataka. The lowest minimum temperature of (minus) 1.0° C was recorded at Bhilwara (east Rajasthan) on 29th December 2018.

Fog:

- Dense to very dense fog observed at isolated places over Punjab on most of the days during the week and over Assam & Meghalaya, Chhattisgarh, West Uttar Pradesh and South Interior Karnataka on one or two days during the week.

Northeast monsoon:

- A persistent change in the wind pattern was noticed during the week. Maritime air over the south peninsular India has been replaced by dry continental air during the week. Thus the northeast monsoon rains ceased over Tamil Nadu & Puducherry,

Kerala and adjoining parts of Andhra Pradesh and Karnataka from 2nd January 2019.

Heavy rain:

- Heavy rain was recorded at isolated places over Tamil Nadu on the 30th December 2018 and over Andaman & Nicobar Islands on 2nd January 2019.

Meteorological Analysis

- Last week's trough of low at mean sea level over southeast Arabian Sea and adjoining equatorial Indian Ocean lay over central parts of south Arabian Sea and adjoining equatorial Indian Ocean on 27th and moved away westwards on 28th December 2018.

- The trough of low at mean sea level over southeast Bay of Bengal and adjoining south Andaman Sea & equatorial Indian Ocean became less marked on 27th December 2018.

- The trough in easterlies extending upto 0.9 km above mean sea level from Maldives area to Madhya Maharashtra across north Kerala and Interior Karnataka became less marked on 27th December 2018.

- A cyclonic circulation extending upto 0.9 km lay over Comorin area neighbourhood on 27th & 28th and became less marked on 29th December 2018.

- A trough ran from southeast Madhya Pradesh to South Interior Karnataka across Vidharbha, Marathwada and North Interior Karnataka at 0.9 km above mean sea level on 27th and became less marked on 28th December 2018.

- The trough in westerlies between 3.1 km & 3.6 km above mean sea level roughly along Long. 93°E to the north of Lat. 25°N persisted there on 27th and moved away eastwards on 28th December 2018.

- The feeble western disturbance as a trough moved eastwards and ran roughly along: Long. 84°E to the north of Lat. 30°N on 27th; Long. 86°E to the north of Lat. 30°N on 28th; Long. 92°E to the north of Lat. 28°N on 29th and moved away eastwards on 30th December 2018.

- A cyclonic circulation between 1.5 km & 2.1 km above mean sea level lay over eastcentral Arabian Sea off Maharashtra coast on 28th & 29th and became less marked on 30th December 2018.

- A cyclonic circulation extending upto 0.9 km above mean sea level lay over south coastal Odisha and adjoining north coastal Andhra Pradesh on 28th and became less marked on 29th December 2018.

- A cyclonic circulation lay over Coastal Karnataka & neighbourhood extending upto 3.6 km above mean sea level on 29th and became less marked on 30th December 2018.

- A fresh feeble western disturbance as a cyclonic circulation lay over northeast Pakistan & neighbourhood at 3.1 km above mean sea level on 29th & 30th. It lay over Jammu & Kashmir and neighbourhood on 31st December 2018 and moved away east-northeastwards on 1st January 2019.

- A cyclonic circulation lay over central Pakistan and adjoining northwest Rajasthan & Punjab extending upto 0.9 km above mean sea level on 30th and became less marked on 31st December 2018.

- A trough in easterlies ran from southeast Arabian Sea to eastcentral Arabian Sea off west coast and extended upto 0.9 km above mean sea level on 30th. It lay over southeast Arabian Sea off Kerala-Karnataka coasts on 31st December 2018 and became less marked on 1st January 2019.

- A fresh western disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level lay over northeast Afghanistan and neighbourhood 31st December 2018. It lay over northeast Afghanistan and adjoining north Pakistan on 1st January 2019 and over north Pakistan and neighbourhood between 3.1km & 3.6km above mean sea level with a trough aloft with its axis at 5.8 km above mean sea level roughly along Long. 68°E to the north of Lat. 32°N on 2nd January 2019.

- A cyclonic circulation between 1.5 km & 2.1 km above mean sea level lay over Kerala and adjoining southeast Arabian Sea on 1st January 2019 and became less marked on 02nd.

- An induced cyclonic circulation extending upto 1.5 km above mean sea level lay over North Rajasthan and neighbourhood on 2nd January 2019.

- A cyclonic circulation extending between 1.5 km & 2.1 km above mean sea level lay over Comorin area and neighbourhood on 2nd January 2019.

Average rainfall during the week

The All India area weighted rainfall during the week 0.5 mm was 88% below normal (4.1 mm).

The subdivision-wise weekly rainfall distribution is presented in Fig.1. Rainfall was Large excess in 1, excess in 1, normal in 2, deficit in 1, Large deficit in 14 and no rain in 17 out of 36 meteorological sub-divisions.

Cumulative Seasonal rainfall (01st October to 31st December 2018)

The cumulative seasonal rainfall during 01st October to 31st December 2018 over the country as a whole was 71.2 mm which is 44% below normal rainfall of 127.2 mm.

The subdivision-wise seasonal rainfall distribution is presented in Fig. 2. Rainfall was Large excess in 0, excess in 2, normal in 3, deficit in 13 and L. deficit in 18 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 winter season (01st October to 31st December 2018)

In the country, 2% districts received large excess, 3% districts received excess and 10% districts normal rainfall during post monsoon season so far. However, 24% districts received deficient, 41 % districts received large deficient rainfall and 20% 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 1 Sub-division viz.; Kerala received large excess rainfall, 1 Sub-division viz.; Lakshadweep received excess rainfall, 2 Sub-divisions viz.; Coastal Karnataka and Andaman & Nicobar Islands received normal rainfall and remaining 32 Sub -divisions received either deficit / large deficit / no rainfall. (Table-2).

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

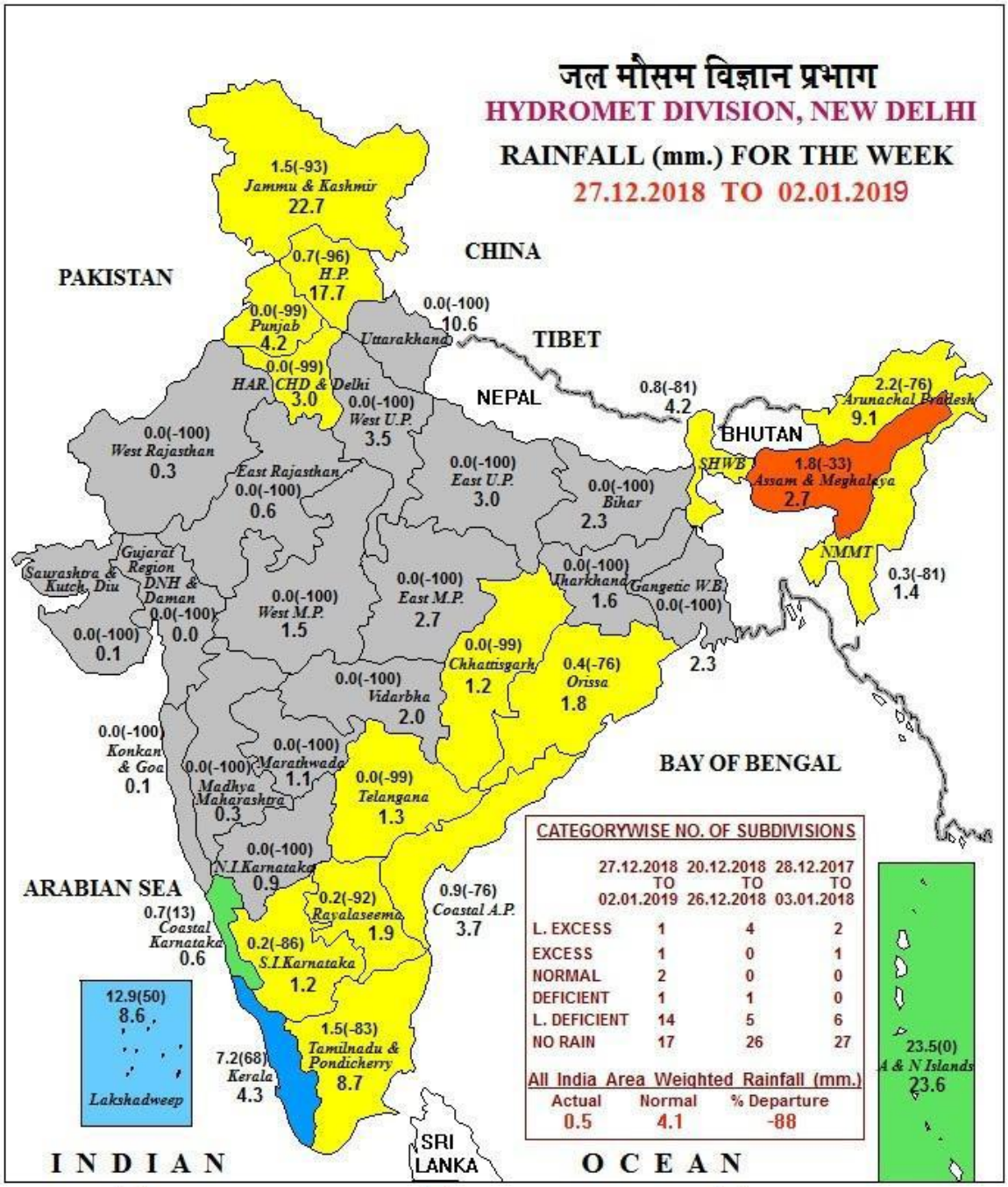
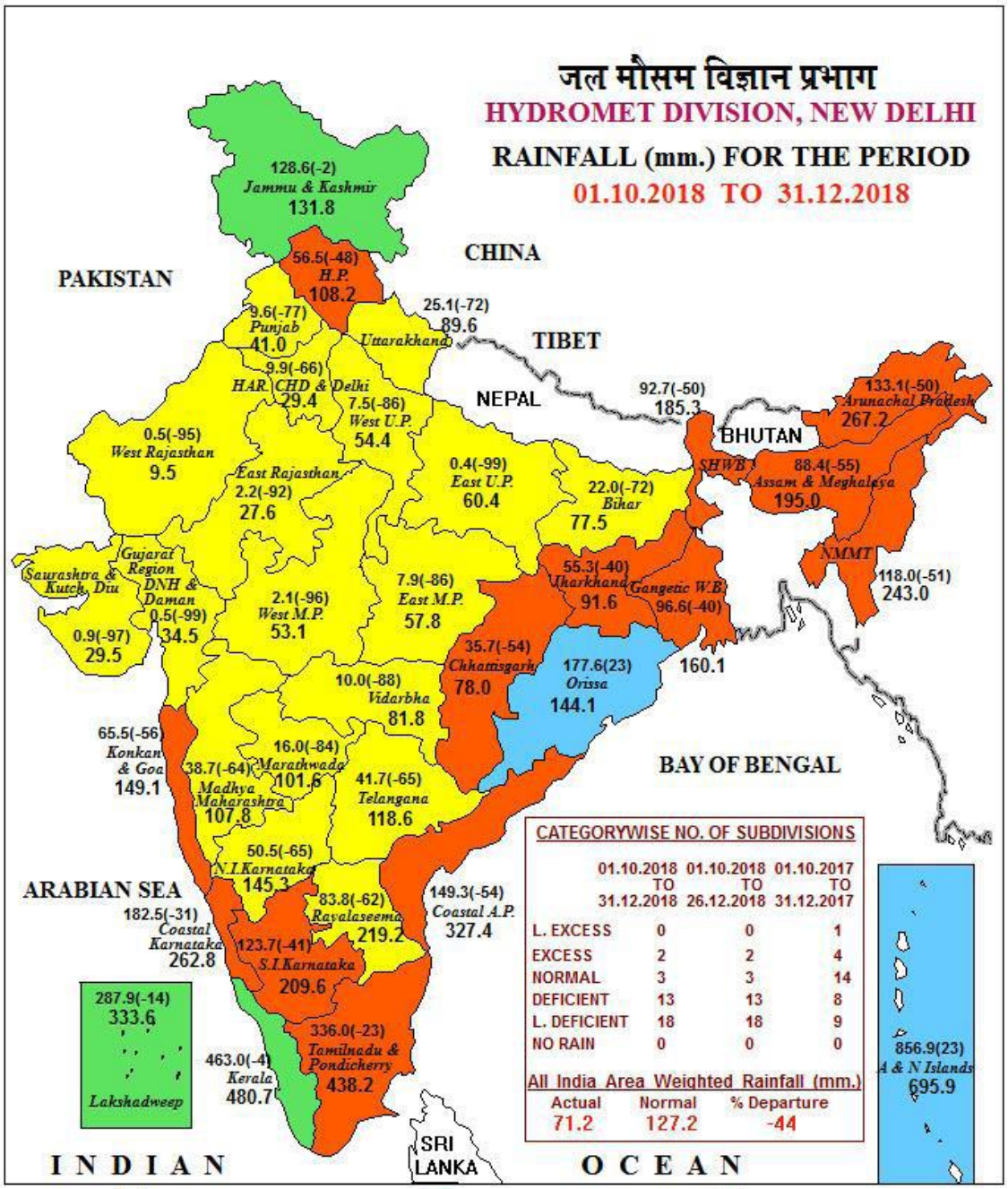


Fig-1

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-2

Table 1. State wise distribution of number of districts with large excess, excess, normal, deficient, large deficient, no rainfall and data inadequate shown (01.10.2018 to 31.12.2018)

S.NO.	STATES	PERIOD FROM : 01.10.2018 TO 31.12.2018							
		LE	E	N	D	LD	NR	ND	TOTAL
1.	A & N ISLAND (UT)	1	0	1	1	0	0	0	3
2.	ARUNACHAL PRADESH	1	0	4	4	5	1	1	16
3.	ASSAM	0	0	4	17	6	0	0	27
4.	MEGHALAYA	0	0	1	1	4	0	1	7
5.	NAGALAND	0	0	2	5	4	0	0	11
6.	MANIPUR	0	0	0	2	4	0	3	9
7.	MIZORAM	0	0	2	0	3	0	4	9
8.	TRIPURA	0	0	0	3	1	0	0	4
9.	SIKKIM	0	0	1	1	2	0	0	4
10.	WEST BENGAL	0	0	3	8	8	0	0	19
11.	ODISHA	7	11	9	3	0	0	0	30
12.	JHARKHAND	0	2	1	11	10	0	0	24
13.	BIHAR	1	0	2	4	24	7	0	38
14.	UTTAR PRADESH	0	0	0	2	24	46	0	72
15.	UTTARAKHAND	0	0	0	1	12	0	0	13
16.	HARYANA	1	0	0	3	16	1	0	21
17.	CHANDIGARH (UT)	0	0	0	0	1	0	0	1
18.	DELHI	0	0	0	0	8	0	1	9
19.	PUNJAB	0	0	1	3	9	7	0	20
20.	HIMACHAL PRADESH	0	0	1	7	4	0	0	12
21.	JAMMU & KASHMIR	4	3	5	5	1	1	3	22
22.	RAJASTHAN	0	0	0	1	14	18	0	33
23.	MADHYA PRADESH	0	0	0	1	30	20	0	51
24.	GUJARAT	0	0	0	0	11	22	0	33
25.	DADRA & NAGAR HAVELI (UT)	0	0	0	0	1	0	0	1
26.	DAMAN & DIU (UT)	0	0	0	0	1	1	0	2
27.	GOA	0	0	0	2	0	0	0	2
28.	MAHARASHTRA	0	0	0	7	26	3	0	36
29.	CHHATISGARH	0	0	5	12	8	2	0	27
30.	ANDHRA PRADESH	0	0	1	6	6	0	0	13
31.	TELANGANA	0	1	1	6	23	0	0	31
32.	TAMILNADU	0	0	15	17	0	0	0	32
33.	PUDUCHERRY (UT)	0	0	1	1	0	0	2	4
34.	KARNATAKA	0	0	1	20	9	0	0	30
35.	KERALA	0	3	7	4	0	0	0	14
36.	LAKSHADWEEP (UT)	0	0	1	0	0	0	0	1
TOTAL		**15**	**20**	**69**	**158**	**275**	**129**	**15**	**681**
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 666 WHOSE DATA RECEIVED		**2%**	**3%**	**10%**	**24%**	**41%**	**20%**		

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

S.No.	Meteorological Sub Division	02 Jan (01)
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:	