

**All India Coordinated Research Project on Agrometeorology (AICRPAM)
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**Status of monsoon, Progress in kharif Sowing and Agromet Advisories for some
Deficit/Excess rainfall Areas**

1. Status of southwest monsoon

During 1 June – 17 September, country as a whole received 774 mm rainfall, which is 6% deficit compared to the normal rainfall of the country for the same period (825 mm). Districts which received rainfall less than 50% of normal during 1 June - 17 September were identified and depicted in Figure 1, Table 2 & 3.

2. Progress in kharif sowing (Source: Press Information Bureau and Ministry of agriculture and Farmers' Welfare, Govt. of India)

The total sown area of major crops as on 17th September, 2017 (as per reports received from states), stands at 1041 lakh hectare as compared to 1050 lakh hectare, as on this date last year (Table 1).

Table 1: Progress in kharif sowing in India as on 17th September 2017 (Area in Lakh hectare)

Crop	Area sown in 2017-18	Area sown in 2016-17
Rice	371.46	376.89
Pulses	139.17	144.84
Coarse Cereals	183.43	186.06
Oilseeds	169.2	187.16
Sugarcane	49.88	45.64
Jute & Mesta	7.05	7.56
Cotton	120.98	101.72
Total	1041.17	1049.87

3. Agromet Advisories

Deficit rainfall areas

Maharashtra

Rainfall received in major meteorological sub-divisions of the state are as follows:

Vidarbha – 652 mm (27% deficit); Marathwada – 573 mm (4% deficit); Madhya Maharashtra - 745 mm (16% surplus) and Konkan - 2768 mm (equal to normal)

The extended range weather forecast provided for next two weeks (15-21 and 22-28 September) for different subdivisions of Maharashtra are: Vidarbha (above normal for both weeks); Marathwada (above normal and normal); Madhya Maharashtra (above normal and normal) and Konkan (above normal and normal).

Vidarbha

- As above normal rainfall is forecasted for both the weeks, undertake harvesting of matured green gram/black gram and store the produce in safe storage
- Undertake intercultural operations (weeding/hoeing) in cotton/pigeonpea to control weeds and improve surface tilth for better rain water conservation. At the last hoeing, open furrow between two rows by tying the ropes to hoe for better in-situ conservation of rainwater, particularly in late sown condition.
- Withhold the irrigation, application of fertilizers and plant protection chemicals as above normal rainfall is forecasted, unless it is necessary.

Madhya Pradesh

East Madhya Pradesh has received 699 mm rainfall (29% deficit) and West Madhya Pradesh has received 631 mm rainfall (22% deficit), so far during the season.

The extended range weather forecast provided for next two weeks (15-21 and 22-28 September) for different subdivisions of Madhya Pradesh are: East Madhya Pradesh (normal and above normal); West Madhya Pradesh (normal and above normal). The following advisories may be followed after the forecasted spell of normal rainfall.

- Soybean: Due to cloudy weather and high temperature, the infestation of stem fly was observed in the fields. Apply Dimethoate 30 EC 650 ml or Thiomethoxam 25 WG @ 100 gram per hectare.
- Paddy: The crop is at ear head emergence stage. Infestation of gundhi bug is reported in the fields. Apply quinalphos 25 EC @ 1 liter per hectare to control it.

Uttar Pradesh

Western UP has received 443 mm (38% deficit) and Eastern UP has received 590 mm (28% deficit) rainfall so far during the season.

The extended range weather forecast provided for next two weeks (15-21 and 22-28 September) for different subdivisions of Uttar Pradesh are: Western UP (below normal, above normal); Eastern UP (below normal, above normal).

- As subdued rainfall has caused moisture stress, provide irrigation wherever possible to paddy and maize.
- Wherever maize is in maturity stage, harvesting is advised as above normal rainfall is forecasted during 22-28 Sept.

- Wherever root weevil infestation is noticed in paddy, apply Phorate-10 G @ 10 kg/ha.

Haryana, Chandigarh & Delhi

The sub-division has received 312 mm rainfall so far during the season, which is 29% deficit compared to the normal rainfall for the same period. The extended range weather forecast provided for next two weeks (15-21 and 22-28 September) for Haryana, Chandigarh & Delhi is: below normal and above normal, respectively.

Haryana

- As below normal rainfall is forecasted in the coming week, apply irrigation to paddy as the crop is at ear development stage.
- Cotton: present weather condition is congenial for incidence of myrothecium leaf spot and bacterial blight in Western Haryana. To control these, spray 800 gram copper oxychloride in 250 liter water per acre, during clear sky conditions.

Note: The above is a general overview for the states. However, for further details, district level contingency plans prepared by ICAR-CRIDA [covering all farming situations within the district) and placed in the websites of the Department of Agriculture Cooperation & Farmers' Welfare, Government of India (www.agricoop.nic.in) and CRIDA (www.crida.in)] may be referred.

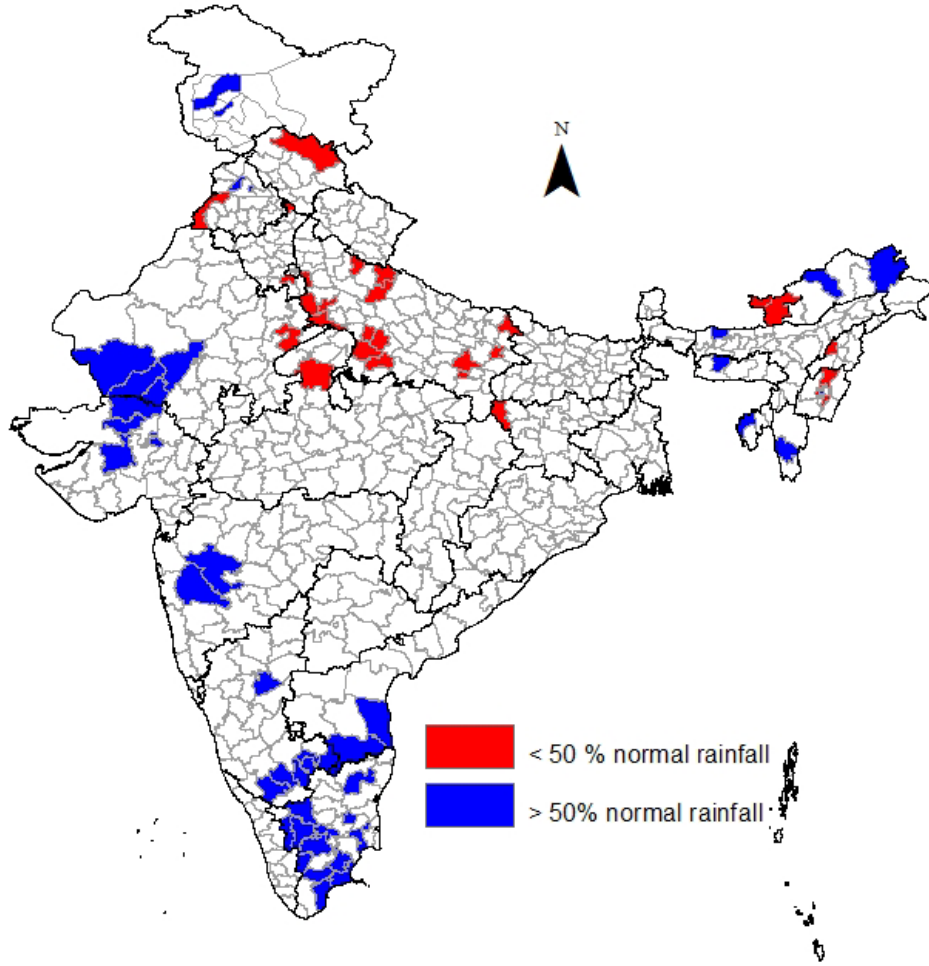


Figure 1: Districts received > 50% deficit and excess rainfall compared to normal during 1 June - 18 September 2017 (Prepared by AICRPAM based on the data provided by IMD)

Table 2: Districts which received more than 50% deficit rainfall compared to normal (1 June to 17 September 2017) (Source: IMD)

S. No	Met. Subdivision	District	Period: 01-06-2017 To 17-09-2017		
			Actual (Mm)	Normal (Mm)	% Dep.
1	Arunachal Pradesh	Tawang	554	2198.2	-75
2		West Kameng	1102	2198.2	-50
3	NMMT	Wokha	398	1543.9	-74
4		Senapati	518	1161.3	-55
5		Thoubal	321	775.1	-59
6	Jharkhand	Garhwa	378.2	836.4	-55
7	East Uttar Pradesh	Amethi	277.6	756.5	-63
8		Jaunpur	349.1	773.9	-55
9		Kanpur Dehat	316	696.2	-55

10		Kushinagar	399.4	1019.3	-61
11		Mau	374.7	894.2	-58
12		Santravidasnagar	375	787.1	-52
13	West Uttar Pradesh	Agra	206.5	632.2	-67
14		Auraiya	268.3	638.2	-58
15		Gautambudhnagar	231	499.4	-54
16		Ghaziabad	291.1	578.5	-50
17		Hamirpur	291.3	732.3	-60
18		Jalaun	286.1	707.4	-60
19		Mahamayanagar	207.5	565.2	-63
20		Mathura	229.5	534.1	-57
21		Pilhibhit	371.1	897	-59
22		Rampur	417.9	841.5	-50
23		Shahjahanpur	382.4	790.6	-52
24	Har Cha Del	Gurgaon	212.2	449	-53
25		Palwal	197.4	410.1	-52
26		Panchkula	358.6	883.7	-59
27		North East Delhi	256.5	597.4	-57
28	Punjab	Firozpur	59.8	324.9	-82
29	Himachal Pradesh	Lahul&Spiti	123.2	404.1	-70
30	East Rajasthan	Karauli	305.5	606.9	-50
31	West Madhya Pradesh	Shivpuri	350.9	723.6	-52

Table 3: Districts which received more than 50% surplus rainfall compared to normal (1 June to 17 September 2017) (Source: IMD)

S. No	Met. Subdivision	District	Period: 01-06-2017 To 17-09-2017		
			Actual (Mm)	Normal (Mm)	% Dep.
1	Arunachal Pradesh	Lower Dibang Valley	3200.6	916.2	249
2		Upper Subansiri	1173.6	678.7	73
3	Assam & Meghalaya	Chirang	3264.7	2066.7	58
4		East Garo Hills	3019.3	1503.7	101
5	NMMT	Dimapur	1365.5	740.1	85
6		Imphal West	2290.1	881.9	160
7		Lunglei	3923.8	1631.8	140
8		Serchhip	2198.9	1461.4	50
9		West Tripura	2022	1261.7	60
10	Punjab	Kapurthala	600.5	382	57
11	Jammu & Kashmir	Bandipore	282	151.5	86
12		Baramula	399.6	227.5	76
13		Ganderwal	276.3	168.9	64
14		Pulwama	205.2	133.3	54

15		Riasi	1964.6	1232	59
16	West Rajasthan	Barmer	459.1	233.7	96
17		Jalor	884.8	383.9	130
18		Pali	778.1	430.8	81
19	East Rajasthan	Sirohi	1796.5	838.4	114
20	Guajarat	Banaskantha	1127.9	537.5	110
21		Gandhinagar	1146.1	677.7	69
22		Patan	908	489.6	85
23	Saurashtra & Katch	Devbhoomi Dwarka	615.9	401.8	53
24		Morbi	945.6	462.8	104
25		Surendranagar	834.3	459.2	82
26		Diu	1009.4	619.6	63
27	Madhya Maharashtra	Ahmadnagar	540	350.8	54
28		Pune	1155.1	759.1	52
29	Chhattisgarh	Kabirdham	1235.6	805.3	53
30	Coastal Andhra Pradesh	Nellore	421.4	275.3	53
31	Rayalaseema	Chittoor	512.4	327.3	57
32	Tamilnadu & Pondicherry	Coimbatore	437.3	138	217
33		Dindigul	356.1	212.6	68
34		Erode	236.5	155.7	52
35		Karur	282.3	144.1	96
36		Perambalur	401.1	204.7	96
37		Ramanathapuram	191.4	108.2	77
38		Sivaganga	478.1	242	98
39		Teni	309.8	105.6	193
40		Thanjavur	398.9	248.3	61
41		Tiruppur	293.9	100.1	194
42		Tiruvannamalai	581.8	363.3	60
43		Tuticorin	87.2	50.8	72
44		Virudhunagar	268.9	136.9	96
45		South Interior Karnataka	Koppal	417.2	277.6
46	Banglore Urban		539.9	354.5	52
47	Kolar		457	280.3	63
48	Mandhya		346	191	81
49	Mysore		405.2	263.6	54
50	Ramnagar		483.1	321	51