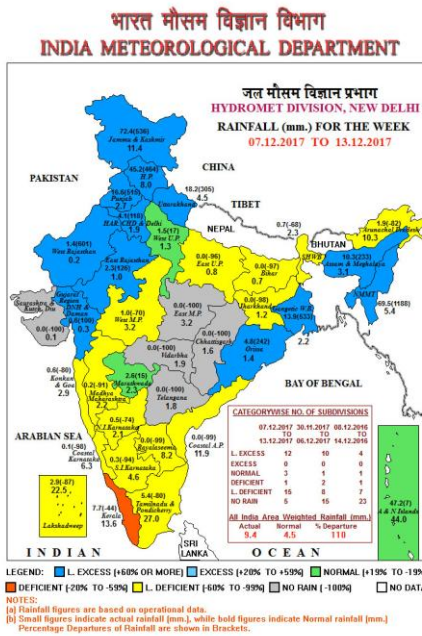


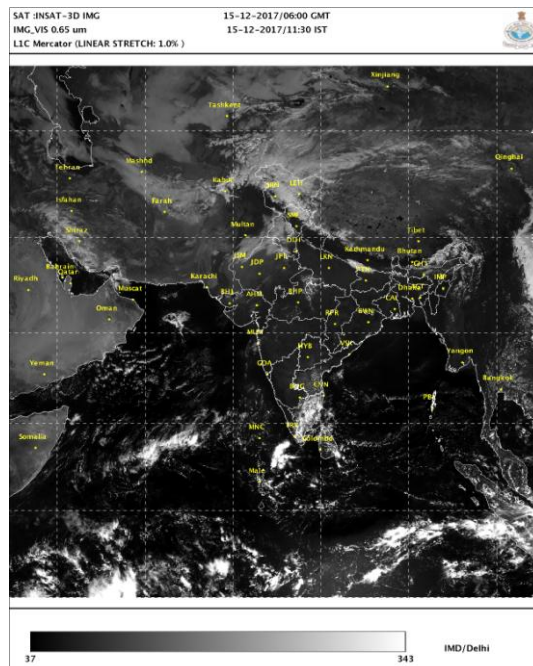
Inputs for Krishi Darshan, New Delhi dated 15.12.2017

Rainfall map for the week ending 13.12.2017



- ◆ **Large Excess Rain:** Gujarat, Dadra- Nagar Haveli & Daman, Rajasthan, Punjab, Haryana, Chandigarh, Delhi, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Assam, Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gangetic West Bengal and Odisha
- ◆ **Excess Rain:** NIL
- ◆ **Normal Rain:** West Uttar Pradesh, Marathwada, Andaman & Nicobar Islands
- ◆ **Rainfall was Deficient / Low Deficient / Dry:** Rest of the region.

Satellite image 0600 UTC Dated 15.12.2017



## Weather Forecast for next 5 days valid upto 0830 hours of 20<sup>th</sup> December, 2017

- **Meteorological subdivision wise detailed 5 days rainfall forecast is given in Table.**
- Minimum temperatures very likely to fall by 2-3° C over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan and Gujarat during next 3-4 days, thereby resulting in likely occurrence of cold wave conditions over some more parts of northwest, West & Central India Minimum temperatures are also likely to fall by 2-3° C over East India during next 2-3 days. No significant change is likely over the rest of the country during next 3-4 days.
- Shallow to moderate fog at isolated places very likely over West Bengal, interior Odisha and north Madhya Pradesh in the morning hours of during next 2 days.

### 5 Day Rainfall Forecast (Mid day) 15<sup>th</sup> December, 2017

Met-Sub-Division	15-Dec Today	16Dec Sat	17Dec Sun	18Dec Mon	19Dec Tue
1. Andaman & Nicobar Islands	ISOL	ISOL	SCT	SCT	ISOL
2. Arunachal Pradesh	DRY	DRY	DRY	DRY	DRY
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	DRY	DRY	DRY	DRY	DRY
8. Jharkhand	DRY	DRY	DRY	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	DRY	DRY	DRY	DRY
16. Jammu & Kashmir	ISOL	ISOL	ISOL	ISOL	ISOL
17. West Rajasthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	DRY	DRY	DRY	DRY	DRY
29. Telangana	DRY	DRY	DRY	DRY	DRY
30. Rayalaseema	DRY	DRY	DRY	DRY	DRY
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	DRY	DRY	DRY	DRY	DRY
35. Kerala	ISOL	ISOL	DRY	DRY	DRY
36. Lakshadweep	ISOL	ISOL	DRY	DRY	DRY

#### % Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

### Weather Warning during next 5 days

**15 December (Day 1): Dense to very dense fog** at a few places very likely over Punjab, Haryana, West Uttar Pradesh, north Rajasthan and at isolated places over Nagaland, Manipur, Mizoram & Tripura; **dense fog** at isolated places over Jammu division of Jammu & Kashmir, lower regions of Himachal Pradesh and Uttarakhand and **moderate to dense fog** at isolated places over Sub-Himalayan West Bengal and Assam & Meghalaya. **Cold wave conditions** very likely at isolated places over lower regions of Jammu & Kashmir, Himachal Pradesh and over Punjab, Haryana, West Uttar Pradesh and West Rajasthan. **Cold day conditions** are very likely at isolated places over Punjab, Haryana, north Rajasthan and West Uttar Pradesh.

**16 December (Day 2):** Dense fog at isolated places very likely over Punjab, Haryana and north Rajasthan; **Moderate to dense fog** at isolated places over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand and West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal and Assam & Meghalaya. **Severe cold wave conditions** are at isolated places very likely over Punjab, Haryana and West Rajasthan and **cold wave conditions** at isolated places over Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh and East Rajasthan. **Cold day conditions** at isolated places very likely over Punjab, Haryana, North Rajasthan and West Uttar Pradesh.

**17 December (Day 3): Moderate to dense fog** at isolated places very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, north Rajasthan, Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. **Severe cold wave conditions** at isolated places very likely over north Rajasthan and **cold wave conditions** at isolated places over Punjab, Haryana and Uttar Pradesh.

**18 December (Day 4): Moderate to dense fog** at isolated places very likely over Punjab, Haryana, North Rajasthan, Uttar Pradesh, Nagaland, Manipur, Mizoram and Tripura. **Severe cold wave conditions** at isolated places very likely over north Rajasthan and **cold wave conditions** at isolated places over Punjab, Haryana and West Uttar Pradesh.

**19 December (Day 5): Moderate to dense fog** at isolated places very likely over Punjab, Haryana, North Rajasthan and Uttar Pradesh. **Severe cold wave conditions** at isolated places very likely over north Rajasthan and **cold wave conditions** at isolated places over Punjab, Haryana and West Uttar Pradesh.

### Weather Outlook for subsequent 2 days from 20<sup>th</sup> to 22<sup>nd</sup> December, 2017

- Minimum temperatures very likely to prevail below normal by 2-3° C over many parts of northwest, central and adjoining East India.
- Rainfall at isolated places likely over southern most peninsular India and Andaman & Nicobar Islands.
- Weather is likely to be dry over the remaining parts of the country.

### Executive Summary

- As severe cold wave conditions very likely at isolated places over **Punjab, Haryana and West Rajasthan** on 16<sup>th</sup>, over **north Rajasthan** from 17<sup>th</sup> to 19<sup>th</sup>, cold wave conditions very likely at isolated places over lower regions of **Jammu & Kashmir, Himachal Pradesh** and over **Punjab, Haryana, West Uttar Pradesh and West Rajasthan** on 15<sup>th</sup>, **Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh and East Rajasthan** on 16<sup>th</sup>, over **Punjab, Haryana and Uttar Pradesh** from 17<sup>th</sup> to 19<sup>th</sup> December, apply light and frequent irrigation /sprinkler irrigation in the evening to protect the crops from frost / cold injury. To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags.
- As dense to very dense fog at a few places very likely over **Punjab, Haryana, West Uttar Pradesh, north Rajasthan** from 15<sup>th</sup> to 17<sup>th</sup>, dense fog at isolated places over **Jammu division** of Jammu & Kashmir, lower regions of **Himachal Pradesh and Uttarakhand** on 15<sup>th</sup>, Moderate to dense fog at isolated places over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand and West Uttar Pradesh on 16<sup>th</sup>, Moderate to dense fog at isolated places very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 17<sup>th</sup>, over **Punjab, Haryana, north Rajasthan, Uttar Pradesh** from 17<sup>th</sup> to 19<sup>th</sup> December, dense to very dense fog/moderate to dense fog at isolated places very likely over **Nagaland, Manipur, Mizoram & Tripura** from 16<sup>th</sup> to 18<sup>th</sup> and moderate to dense fog at isolated places very likely over **Assam & Meghalaya** from 15<sup>th</sup> to 17<sup>th</sup> December, monitor the standing crops

for incidence and spread of pest diseases, tomato and onion crops for early/late blight disease. If symptoms are noticed, undertake plant protection measures.

- In **South Telangana Zone**, to overcome cold injury and for better nursery growth in rice, adopt the following measures: Cover the nursery beds with polythene sheet during night and remove in the morning. Irrigate the nursery bed every day in the evening and let out the water in the morning.
- As dry weather would prevail, continue harvesting of Sali rice in **Assam, Meghalaya** and picking of cotton in **Gujarat and North Interior Karnataka**.
- In Punjab, in view of the cold wave/severe cold wave conditions, keep the animals inside the sheds during night and provide dry bedding and use heaters inside cattle sheds to protect them from cold. Increase protein level and minerals in the feed concentrate to keep the animals healthy to cope up with the situation. In **Jammu & Kashmir**, give special care to young calves as they are more sensitive to pneumonia. Protect the pregnant and milch animals from cold and feed them mineral mixture regularly. Put some bedding material like *puaal* etc. to keep animals warm. Provide dry bedding during night. Do not allow animals to leave khurli early in morning directly to open area. In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

- Weather forecast issued by NWFC, New Delhi and Agromet Advisories prepared based on the DAAS Bulletins issued by different Agrometeorological Field Units are included in this bulletin.