

## **DISASTROUS WEATHER EVENTS – 2014**



Cover photo: Army personnel rescue civilians at the Half Chinar area in Srinagar on Wednesday.

Courtesy: The Indian Express, 11 Sept. 2014.

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NATIONAL CLIMATE CENTRE

OFFICE OF THE ADDITIONAL DIRECTOR GENERAL OF METEOROLOGY (RESEARCH)

PUNE – 411005



भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

# DISASTROUS WEATHER EVENTS 2014

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### **DISASTROUS WEATHER EVENTS OF 2014**

The most striking disastrous weather events of 2014 were the following:

- Heat wave conditions prevailed over Northeastern, Central and Peninsular parts of the country and claimed human lives over 500 out of which 450 lives claimed from Andhra Pradesh and Telangana alone.
- During summer monsoon floods and heavy rains claimed about 940 human lives including a massive landslide on 5<sup>th</sup> August (due to heavy rains) completely buried a village,'Malin' (District Pune, Maharashtra). Around 200 people lost their lives in the landslide and also the most devastating event of the year was the floods in Jammu & Kashmir during the second week of September which claimed over 200 lives and left more than 4 lakh people stranded for many days besides causing widespread damage to the agriculture and public/private property.
- A Very Severe Cyclonic Storm (Hud Hud) formed during 7-14 October, over north Andaman Sea near Lat. 11.5<sup>o</sup>N/ Long. 95.0<sup>o</sup>E at 0300 UTC of 7<sup>th</sup> October, crossed north Andhra Pradesh coast over Visakhapatnam on 12<sup>th</sup> October and dissipated over east Utttar Pradesh on 14<sup>th</sup> October. It took a toll of 46 in Andhra Pradesh.

The summary of these natural hazards is based on various reports of the India Meteorological Department and press information. The areas affected by the adverse weather conditions are depicted season wise on four maps.

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TABLE - I: SNOWFALL 2014

#### **CRITERIA**

Moderate: 7.6 to 15.5 cm in 24 hrs. Rather Heavy: 15.6 to 35.5 cm in 24 hrs.

Heavy: 35.6 to 64.4 cm in 24 hrs.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
1.	9 Jan.	Kupwara (Jammu & Kashmir)	Heavy	2 soldiers buried under avalanche near the LoC in Sonapendi Gali of Macchil sector.	
2.	10 Jan.	Lahaul & Spiti (Himachal Pradesh)	Heavy	One person died in Spiti valley.	Transport affected as more than 50 roads closed.
3.	18 Jan.	Kinnaur, Shimla, Sirmaur and Solan (Himachal Pradesh)	Moderate		<ul><li>i) Transport affected as more than 300 roads blocked due to snowfall.</li><li>ii) Hundreds of buses stranded.</li><li>iii) Supply of electricity and water disrupted.</li></ul>
4.	23 Jan.	(a) Kangra, Kinnaur, Kullu, Shimla, Sirmaur and Solan (Himachal Pradesh)	Moderate		<ul><li>i) Transport affected as more than 100 roads blocked due to snowfall.</li><li>ii) Number of buses stranded.</li><li>iii) Supply of electricity and water disrupted.</li></ul>
		(b) Anatanag, Baramulla and Srinagar (Jammu & Kashmir)	Heavy	3 persons buried under a snow avalanche in Gulmarg and 3 others injured in Anantanag.	10 houses in Anantanag and one in Srinagar collapsed.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
5.	24 Jan.	Baramulla (Jammu & Kashmir)	Heavy	One tourist died and 2 others injured when hit by an avalanche.	
6.	1 Mar.	Parts of Himachal Pradesh	Moderate		<ul><li>i) Transport affected as more than 100 roads blocked due to snowfall.</li><li>ii) Hundreds of buses stranded.</li><li>iii) Supply of electricity and water disrupted.</li></ul>
7.	11 Mar.	(a) Chamba and Sirmaur (Himachal Pradesh)	Rather Heavy		Damage to the crops and orchards reported.
		<ul><li>(b) Anantanag,</li><li>Budgam, Doda,</li><li>Kulgam, Kishtwar and</li><li>Ramban (Jammu &amp;</li><li>Kashmir)</li></ul>	Heavy	<ul><li>i) 17 persons died.</li><li>ii) 57 cattle heads perished.</li></ul>	<ul><li>i) 1,900 houses damaged.</li><li>ii) Srinagar-Jammu NH blocked.</li></ul>
8.	12 Mar.	Kargil (Jammu & Kashmir)	Heavy	An avalanche hit an army camp in which 2 troopers died.	
9.	17 Mar.	Kangra and Hamirpur (Himachal Pradesh)	Rather Heavy		Damage to the crops reported.
10.	7 Apr.	Shimla (Himachal Pradesh)	Moderate		Land slide reported on Sanjauli-Dhalli road.
11.	9 Apr.	Ganderbal (Jammu & Kashmir)	Heavy	One person died in avalanche.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
12.	19 Apr.	Parts of Himachal Pradesh	Heavy		Damage to fruit orchards and crops reported.
13.	13 May	Parts of Himachal Pradesh	Heavy		Damage to fruit orchards and crops reported.
14.	1 Jun.	Chamba (Himachal Pradesh)	Heavy	2 persons died.	Damage to fruit orchards and crops reported.
15.	8 Nov.	Parts of Jammu & Kashmir	Heavy	3 persons died in an avalanche.	
16.	13 Dec.	Kinnaur, Kullu, Manali, Shimla ans Solan (Himachal Pradesh)	Heavy	7 persons including 3 army men died as their truck skidded off in Kinnaur.	<ul><li>i) Most of the national highways closed.</li><li>ii) Power generation remained shut down.</li><li>iii) Many tourists stranded due to road block.</li></ul>
17.	14 Dec.	Kinnaur, Kullu,Mandi and Shimla (Himachal Pradesh)	Rather Heavy		NH remained closed. Many people stranded.
18.	18 Dec.	Almora, Bageshwar, Nainital and Pithoragarh (Uttarakhand)	Heavy	23 persons died.	

٧.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage			
			TABL	E - II : COLD WAVE 2014				
	CRITERIA							
	(A) When; Normal minimum temperature is 10 <sup>o</sup> C or more							
		Со	ld wave : Nigh	t temperature 5°C to 6°C belo	w normal			
		Severe	cold wave : Ni	ght temperature 7°C or more	below normal			
		(B) \	When; Normal	minimum temperature is less	than 10⁰C			
		Co	ld wave : Nigh	t temperature 4°C to 5°C belo	w normal			
		Severe	cold wave : Ni	ght temperature 6°C or more	below normal			
	1 & 2 Jan.	Ajmer and Bhilwara (Rajasthan)	Severe (B)	2 persons died.				
	3 Jan.	(a) Jaipur (Rajasthan)	Severe (B)	2 persons died.				
		(b) Barabanki (Uttar Pradesh)	Severe (B)	3 persons died in Andgau, Daulatpur and Divyanantnagar village.				
	9-11 Jan.	Farrukhabad (Uttar Pradesh)	Severe (B)	4 persons died.				
	15 & 16 Jan.	Sant Ravidas Nagar (Uttar Pradesh)	Severe (B)	3 persons died.				
	18-22 Jan.	(a) Delhi (Union Territory)	Severe (B)	6 persons died.				

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Barabanki, Badohi, Etah, Hamirpur and Jaunpur (Uttar Pradesh)	Severe (Both A & B as appropriate)	15 persons died.	
6.	18 Dec.	(a) Sirsa (Haryana)	Severe (B)	One person died.	
		(b) Bundi (Rajasthan)	Severe (B)	One person died in Nayagaon.	
7.	19 Dec.	Dhule (Maharashtra)	Severe (A)	One woman died.	
8.	22 Dec.	Sirohi (Rajasthan)	Severe (B)	One person died in Mount Abu.	
9.	24-26 Dec.	Parts of Punjab	Severe (Both A & B as appropriate)	3 persons died.	
10.	26 Dec.	Barabanki (Uttar Pradesh)	Severe (B)	2 persons including a child died.	
11.	28 Dec.	(a) Karanal (Haryana)	Severe (B)	3 persons died.	
		(b) Bhopal (Madhya Pradesh)	Severe (A)	One person died.	
12.	29 Dec.	(a) Delhi (Union Territory)	Severe (B)	3 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Burhanpur and Khandwa (Madhya Pradesh)	Severe (A)	2 persons died.	
13.	30 Dec.	Barabanki (Uttar Pradesh)	Severe (B)	3 persons died.	
14.	31 Dec.	Bundi and Karauli (Rajasthan)	Severe (B)	2 persons died.	
			TABL	E – III : HEAT WAVE 2014	
				CRITERIA	
		(A)	•	nal maximum temperature is	
				Departure from normal is 500	
				: Departure from normal is	
		(B)		maximum temperature is mo	
		9-		eparture from normal is 4°C	
		<b>5e</b>	vere neat wave	: Departure from normal is	o C or more
1.	26 Mar.	Kollam (Kerala)	Severe (A)	One person died.	
1. 2.	26 Mar. 4 Apr.	Kollam (Kerala) Balangir (Odisha)	Severe (A)	One person died.  One person died.	

I. Date/Period	Area Affected	Intensity	Casualties	Extent of damage
5-8 Apr.	Burdwan and Purulia (West Bengal)	Severe (A)	2 persons died.	
18 Apr.	Kendrapara and Mayurbhanj (Odisha)	Severe (A)	2 persons died.	
21 Apr.	Dhenkanal (Odisha)	Severe (A)	One person died.	
23 Apr.	(a) Cuttack (Odisha)	Severe (A)	One person died.	
	(b) Kolkata (West Bengal)	Severe (A)	2 persons died.	
25 Apr.	Balasore, Bhadrak and Mayurbhanj (Odisha)	Severe (Both A & B as appropriate)	3 persons died.	
27 Apr.	Angul and Khurda (Odisha)	Severe (A)	2 persons died.	
28 Apr.	Jajpur and Keonjhar (Odisha)	Severe (A)	2 persons died.	
29 Apr.	Keonjhar (Odisha)	Severe (A)	One person died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
12.	*April to Jun. (20-22 Apr., 12-14 May, 16-18 May, 22-23 May, 31May-2 Jun.,11-14 Jun)	Anantapur, Bapatla, Chittoor, East Godavari, Guntur, Hanamkonda, Kadapa, Kakinada, Krishna, Kurnool, Machilipatnam, Nellore, Prakasam, Ramagundam, Srikakulam, Vijayawada, Visakhapatnam, Vizianagaram and West Godavari (Andhra Pradesh/Telangana)	Severe (Both A & B as appropriate)	447 persons died while some of the casualties were reported as Vizianagaram (45), East Godavari (27), Krishna (22), Srikakulam (14), Prakasam (17), Guntur (16).	
13.	1 May	Burdwan and Hooghly (West Bengal)	Severe (A)	2 persons died.	
14.	3 May	Balangir, Balasore, Bhadrak, Cuttack, Jajpur, Kendrapada Khurda and Mayurbhanj (Odisha)	Severe (Both A & B as appropriate)	10 people died.	
15.	6-11 May	Akola, Amravati and Nagpur (Maharashtra)	Severe (B)	13 persons died.	
16.	13 May	Birbhum (West Bengal)	Severe (A)	2 persons died.	

<sup>\*</sup> As per data received from Disaster Management, Govt. of AP.

21 May Burdwan (West Bengal)  23 May Sikar (Rajasthan) Severe (A) One person died.  31 May Amravati Maharashtra) Severe (B) One person died.  1 Jun. Jaipur (Rajasthan) Severe (B) One person died.  3-7 Jun. Akola, Amravati, Chandrapur, Gondia, Nagpur and Gondia (Maharashtra)  4 Jun. Vadodara (Gujarat) Severe (A) 3 persons died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (A) 5 persons died.  Severe (A) 3 persons died.	.N. Date/Per	iod Area Affected	Intensity	Casualties	Extent of damage
31 May Amravati Maharashtra) Severe (B) One person died.  1 Jun. Jaipur (Rajasthan) Severe (A) 2 persons died.  3-7 Jun. Akola, Amravati, Chandrapur, Gondia, Nagpur and Gondia (Maharashtra)  4 Jun. Vadodara (Gujarat) Severe (A) 3 persons died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (A) 5 persons died.  Severe (A) 5 persons died.	7. 21 May	•	Severe (A)	3 persons died.	
1 Jun. Jaipur (Rajasthan) Severe (A) 2 persons died.  3-7 Jun. Akola, Amravati, Chandrapur, Gondia, Nagpur and Gondia (Maharashtra)  4 Jun. Vadodara (Gujarat) Severe (A) 3 persons died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (A) 5 persons died.  Severe (A) 5 persons died.	3. 23 May	Sikar (Rajasthan)	Severe (A)	One person died.	
3-7 Jun. Akola, Amravati, Chandrapur, Gondia, Nagpur and Gondia (Maharashtra)  4 Jun. Vadodara (Gujarat) Severe (A) 3 persons died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (A) 5 persons died.	9. 31 May	Amravati Maharashtra)	Severe (B)	One person died.	
Chandrapur, Gondia, Nagpur and Gondia (Maharashtra)  4 Jun. Vadodara (Gujarat) Severe (A) 3 persons died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.	). 1 Jun.	Jaipur (Rajasthan)	Severe (A)	2 persons died.	
7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  (b) Karauli and Severe (A) 3 persons died.	1. 3-7 Jun.	Chandrapur, Gondia, Nagpur and Gondia	A & B as	17 persons died.	
7 Jun. Raipur (Chhattisgarh) Severe (A) One person died.  8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  (b) Karauli and Severe (A) 3 persons died.	2. 4 Jun.	Vadodara (Gujarat)	Severe (A)	3 persons died.	
8 Jun. Amravati and Wardha (Maharashtra) Severe (Both A & B as appropriate)  9 Jun. Raipur (Chhattisgarh) Severe (A) 5 persons died.  10 Jun. (a) Raipur (Chhattisgarh) Severe (A) 5 persons died.  (b) Karauli and Severe (A) 3 persons died.	. 7 Jun.	Raipur (Chhattisgarh)	Severe (A)	One person died.	
(Maharashtra)  A & B as appropriate)  9 Jun.  Raipur (Chhattisgarh)  Severe (A)  5 persons died.  10 Jun.  (a) Raipur (Chhattisgarh)  Severe (A)  5 persons died.  (b) Karauli and  Severe (A)  3 persons died.	l. 7 Jun.	Raipur (Chhattisgarh)	Severe (A)	One person died.	
10 Jun. (a) Raipur Severe (A) 5 persons died. (Chhattisgarh)  (b) Karauli and Severe (A) 3 persons died.	. 8 Jun.		A & B as	5 persons died.	
(Chhattisgarh)  (b) Karauli and Severe (A) 3 persons died.	6. 9 Jun.	Raipur (Chhattisgarh)	Severe (A)	5 persons died.	
	. 10 Jun.	` '	Severe (A)	5 persons died.	
ondiawar (rajustrian)		(b) Karauli and Jhalawar (Rajasthan)	Severe (A)	3 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
28.	14 & 15 Jun.	North 24-Paraganas, Purba Medinipur and Purulia (West Bengal)	Severe (Both A & B as appropriate)	8 persons died.	

#### TABLE - IV: SQUALL 2014

# A sudden increase of wind speed by in least 29 kmph (16 kts), the speed rising to 40 kmph (22 kts) or more and lasting for in least one minute CRITERIA

Moderate : Surface wind speed (in gusts) up to 80 kmph Severe : Surface wind speed (in gusts) > 80 kmph

1.	25 Mar.	Howrah, Kolkata and North-24 Paraganas (West Bengal)	Severe	2 persons died and 4 others injured.	
2.	8 Apr.	Dakshina Kannada (Karnataka)	Severe	One woman died when a coconut tree fell on her.	
3.	1 May	Erode (Tamil Nadu)	Moderate		About 20,000 banana plantations uprooted in Gobichettipalayam town.
4.	11 May	Nilgiris, Thirunelveli, and Villupuram (Tamil Nadu)	Severe	2 women died due to tree fell on them.	About 70 trees and few electric poles uprooted.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
5.	21 May	Thiruchirapalli (Tamil Nadu)	Severe		About 5,000 acres of plantations damaged.
6.	1 Jun.	Erode and Krishnagiri, (Tamil Nadu)	Moderate		<ul><li>i) Nearly 1,000 plantations and few other trees damaged.</li><li>ii) Thatched huts blown off.</li></ul>
7.	2 Jun.	Madurai, Namakkal and Toothukudi (Tamil Nadu)	Severe	2 persons died including one child due to tree fell upon him while 4 others injured.	
8.	10 Jun.	Begusarai, Motihari and Siwan (Bihar)	Severe	One person died and 4 others injured.	Damage to few houses reported.
9.	19 Jun.	Thiruvananthapuram (Kerala)	Moderate	2 persons injured.	Many trees uprooted causing traffic & power supply disruption reported.
10.	8 Sep.	Rajnandgaon (Chhattisgarh)	Moderate		Damage to many houses reported. Electric poles/trees uprooted.
11.	23 Sep.	Thiruvananthapuram (Kerala)	Severe	One fisherman died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
			TA	ABLE - V : GALE 2014	
				CRITERIA	
			Strong	: Wind speed ≥ 75 kmp	oh .
1.	1 May	Vizianagaram (Andhra Pradesh)	Strong	3 persons died as Asbestos roof fell on them.	Some trees/electric poles uprooted.
			TABLE	E – VI : DUST STORM :	2014
				CRITERIA	
		Moderate : Wind spee	d between 3	9 to 74 kmph and horiz	contal visibility up to 500 metres
		Severe :	Wind speed	≥ 75 kmph and horizor	ntal visibility up to 50 metres
1.	18 Apr.	(a) Jaisalmer, Jodhpur, Sikar and Udaipur (Rajasthan)	Severe	7 persons died due to wall collapse.	<ul><li>i) Many trees/electric poles uprooted causing disruption in road traffic.</li><li>ii) Many hoardings, roofs blown away.</li></ul>
		(b) Barabanki, Faizabad, Farukhabad,	Severe	27 persons died and 30 others injured.	<ul><li>i) Many trees/electric poles uprooted causing disruption in road traffic.</li><li>ii) Severe damage to public and private property</li></ul>
		Hardoi, Jalaun, Jhansi, Lucknow and Sitapur (Uttar Pradesh)			reported.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
3.	5 May	Ranchi (Jharkhand)	Moderate		Damage to the crops and kachcha houses reported.
4.	7 May	Ranchi (Jharkhand)	Moderate		Damage to the crops and kachcha houses reported.
5.	26 May	Rajnandgaon (Chhattisgarh)	Severe	One person died.	
6.	31 May	Bokaro, Chatra, Dhanbad, East Singhbhum and Ranchi (Jharkhand)	Severe	10 persons died.	Number of trees/electric poles uprooted causing disruption in road traffic.
7.	1 Jun.	Khandwa (Madhya Pradesh)	Moderate		More than 2 dozen houses and many trees damaged.
8.	3 Jun.	Gariyaband (Chhattisgarh)	Severe	One person died.	
9.	11 Jun.	Narsinghpur (Madhya Pradesh)	Moderate		2 persons drowned due to boat overturned.
			TABL	E – VII : LIGHTNING 2	2014
1.	19 Jan.	Sitapur (Uttar Pradesh)		2 persons died.	
2.	21 Jan.	Bharatpur and Dausa (Rajasthan)		2 persons died in Kumher and Mehendipur Balaji resp.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
3.	26 Feb.	(a) Bagalkote, Belguam and Gadag (Karnataka)		4 persons died in Bagalkote, Hungund, Ramdurg Tehsil other in Gokak Tehsil and 11 persons injured in Ron Tehsil resp.	
		(b) Baran (Rajasthan)		One woman died.	
4.	27 Feb.	Belguam		One person died.	
5.	3 Mar.	Bijapur, Gulbarga and Raichur (Karnataka)		One person died in Indi Tehsil, other in Afzalpur Tehsil & 7 woman injured in Alland Tehsil while one woman died in Sindanoor Tehsil resp.	
6.	7 Mar.	Bellary, Chamarajanagar and Mysore(Karnataka)		One woman died and other injured in Bellary Tehsil, One died as a dhaba wall fell upon him in Bellary while one woman died in Gundlupet Tehsil and other died and 3 others injured H.D.Kote Tehsil resp.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
7.	8 Mar.	Bagalkote and Belguam (Karnataka)		2 persons died in Badami & Hungund Tehsil while other died in Ramadurg Tehsil resp.	
8.	9 Mar.	Beed (Maharashtra)		One woman died in Majalgaon Tehsil.	
9.	10 Mar.	Belgaum and Dharwad (Karnataka)		One person died in Ramdurg Tehsil while 6 persons injured in Dharwad Tehsil resp.	
10.	11 Mar.	Una (Himachal Pradesh)		One person died in Merhi.	
11.	2 Apr.	Davanagere (Karnataka)		One person died in Harapanahalli Tehsil.	
12.	4 Apr.	Belgaum (Karnataka)		One person died in Raibhag Tehsil.	
13.	5 Apr.	Tirunelveli (Tamil Nadu)		3 persons died and 2 others injured.	
14.	11 Apr.	Chickmagalur (Karnataka)		3 boys died and 4 others injured in Chickmagalur Tehsil.	
15.	13 Apr.	(a) Kurnool (Andhra Pradesh)		3 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Raichur (Karnataka)		one shepherd died and 3 others injured.	
16.	14 Apr.	(a) Kurnool and Mahaboobnagar (Andhra Pradesh)		2 persons died.	
		(b) Surajpur (Chhattisgarh)		4 persons died and 2 others injured.	
		(c) Bellary, Davanagere, Kodagu and Tumkur (Karnataka)		10 persons died and few others injured.	
17.	15 Apr.	Bellary (Karnataka)		One person died.	
18.	16 Apr.	Chamarajanagar, Chickmagalur and Hassan (Karnataka)		One person died in Gundlupet Tehsil other in Tarikere Tehsil while 3 persons injured in Sakaleshpur Tehsil resp.	
19.	17 Apr.	(a) Kurnool (Andhra Pradesh)		One person died.	
		(b) Gadag, Hassan, Koppal and Tumkur (Karnataka)		6 persons died in Gadag, while 2 others in Yelburga and Kunigal Tehsils resp.	

(c ) Chittorgarh Dausa (Rajasth  pr. (a) Mahaboobn (Andhra Prades (b) Mandsaur (I Pradesh) (c) Davanagere and Raichur (Karnataka)	nan) agar sh) Madhya	2 persons died.  One person died.  One person died in Hanumantia village.  One person died in Ganganakatte village	
(Andhra Prades (b) Mandsaur (I Pradesh) (c) Davanagere and Raichur	sh) Madhya	One person died in Hanumantia village. One person died in	
Pradesh)  (c) Davanagere and Raichur	·	Hanumantia village.  One person died in	
and Raichur	e, Hassan		
		other in Arsikere town and 3 others in Raichur Tehsil resp.	
pr. (a) Ahmednaga Buldhana, Hing Satara (Mahara	joli and	7 persons died.	
(b) Chitradurga Kodagu Raichu Shimoga (Kara	ır and	One man died in Hiriyur Tehsil, other woman in Ranebennur town, One man died in Virajpet Tehsil, one shepherd died in Manvi Tehsil and one person died in Tirthahally Tehsil resp.	
	than)	2 women died.	
	· ·		town, One man died in Virajpet Tehsil, one shepherd died in Manvi Tehsil and one person died in Tirthahally Tehsil resp.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
23.	21 Apr.	Ahmednagar and Jalgaon (Maharashtra)		9 persons died.	
24.	23 Apr.	Bhopal (Madhya Pradesh)		One man died.	
25.	26 Apr.	Bellary , Bijapur Davanagere and Gadag (Karnataka)		5 persons died.	
26.	27 Apr.	Mahaboobnagar and Medak (Andhra Pradesh)		3 persons died.	
27.	29 Apr.	Bellary, Dakshina Kannada and Davanagere (Karnataka)		5 persons died and few others injured.	
28.	1 May	(a) Vizianagaram (Andhra Pradesh)		One person died.	
		(b) Dakshina Kannada and Gulbarga (Karnataka)		One person died in Puttur Tehsil and other in Afzalpur Tehsil resp.	
		(c) Tiruchirapalli (Tamil Nadu)		2 boys died.	
29.	2 May	Dharwad and Gadag (Karnataka)		One person died in Hubli city and other died in Ron Tehsil.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
30.	3 May	Bellary, Shimoga and Tumkur (Karnataka)		One woman died in Siruguppa Tehsil other in Sagar Tehsil and one man died in Choragondahahalli village resp.	
31.	4 May	Kasaragod, Kollam and Thiruvananthapuram (Kerala)		4 persons died and 8 others injured.	
32.	9 May	Khammam, Prakasam and Warangal (Andhra Pradesh)		5 persons died.	
33.	10 May	Srikakulam (Andhra Pradesh)		2 persons died.	
34.	14 May	Bundi and Kota (Rajasthan)		One person died.	
35.	19 May	Haveri and Raichur (Karnataka)		4 persons including one woman died.	
36.	20 May	Haveri, Koppal, and Tumkur (Karnataka)		One boy died in Hanagal Tehsil other in Karadona village and one person died in Tumkur Tehsil.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
37.	21 May	(a) Bagalkote, Hassan and Haveri (Karnataka)		One person died in Mudhol Tehsil 2 others in Arsikere Tehsil and one died in Haveri Tehsil resp.	
		(b) Vellore (Tamil Nadu)		2 persons died.	
38.	26 May	Bagalkote, Bijapur and Gulbarga (Karnataka)		One person died in Bagalkote Tehsil, one boy in Talikote and 2 others died in Afzalpur Tehsil.	
39.	27 May	Bijapur, Gulbarga, Mandya, and Koppal (Karnataka)		One person died each in Indi Tehsil, Gulbarga city, Sirangapatna Tehsil and Kushtagi town.	
40.	28 May	Mysore (Karnataka)		2 persons died in H.D.Kote Tehsil.	
41.	31 May	Bellary (Karnataka)		One person died in Sandur Tehsil.	
42.	1 Jun.	(a) Khargone (Madhya Pradesh)		2 persons died.	
		(b) Bikaner and Sikar (Rajasthan)		2 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(c)Bardhaman, Murshidabad and Purulia (West Bengal)		10 persons died.	
43.	3 Jun.	Dindigul (Tamil Nadu)		One boy died in Kodaikanal.	
44.	4 Jun.	(a) Parbhani (Maharashtra)		2 persons died and 2 others injured.	
		(b) Bargarh, Koraput and Nawarangpur (Odisha)		3 persons died.	
45.	7 Jun.	(a) Araria, Katihar and Supaul (Bihar)		10 persons died.	
		(b) Yavatmal (Maharashtra)		One person died.	
		(c) Kalahandi (Odisha)		One person died.	
46.	8 Jun.	Sundargarh (Odisha)		One person died.	
47.	9 Jun.	Chandrapur (Maharashtra)		One person died in Warora city.	
48.	11 Jun.	Shajapur (Madhya Pradesh)		One person died.	
49.	16 Jun.	(a) Mahasamund (Chhattisgarh)		One person died.	

17 Jun.	(b) Ganjam (Odisha)			
17 Jun.			One person died.	
	Cuttack, Koraput and Rayagada (Odisha)		4 persons died.	
18 Jun.	(a)Janjgir (Chhattisgarh)		2 persons died.	
	(b) Rayagada (Odisha)		One person died.	
21 Jun.	Bhagalpur (Bihar)		3 persons died.	
25 Jun.	Jajpur (Odisha)		3 persons died.	
27 Jun.	Kamrup (Assam)		4 died in Guwahati.	
29 Jun.	(a) Bokaro (Jharkhand)		2 persons died.	
	(b) Mayurbhanj (Odisha)		2 persons died.	
30 Jun.	Dhenkanal (Odisha)		2 persons died.	
1 Jul.	Araria, Banka and Bhagalpur (Bihar)		8 persons died.	
2 Jul.	Jashpur and Raipur (Chhattisgarh)		3 persons died.	
6 Jul.	(a) Janjgir-Champa (Chhattisgarh)		4 persons died in Pamgarh.	
	(b) Raichur (Karnataka)		One person died in Bannigola village.	
	<ul><li>21 Jun.</li><li>25 Jun.</li><li>27 Jun.</li><li>29 Jun.</li><li>30 Jun.</li><li>1 Jul.</li><li>2 Jul.</li></ul>	18 Jun. (a)Janjgir (Chhattisgarh) (b) Rayagada (Odisha) 21 Jun. Bhagalpur (Bihar) 25 Jun. Jajpur (Odisha) 27 Jun. Kamrup (Assam) 29 Jun. (a) Bokaro (Jharkhand) (b) Mayurbhanj (Odisha) 30 Jun. Dhenkanal (Odisha) 1 Jul. Araria, Banka and Bhagalpur (Bihar) 2 Jul. Jashpur and Raipur (Chhattisgarh) 6 Jul. (a) Janjgir-Champa (Chhattisgarh)	18 Jun. (a)Janjgir (Chhattisgarh) (b) Rayagada (Odisha)  21 Jun. Bhagalpur (Bihar)  25 Jun. Jajpur (Odisha)  27 Jun. Kamrup (Assam)  29 Jun. (a) Bokaro (Jharkhand) (b) Mayurbhanj (Odisha)  30 Jun. Dhenkanal (Odisha)  1 Jul. Araria, Banka and Bhagalpur (Bihar)  2 Jul. Jashpur and Raipur (Chhattisgarh)  6 Jul. (a) Janjgir-Champa (Chhattisgarh)	18 Jun. (a) Janjgir (Chhattisgarh) 2 persons died. (b) Rayagada (Odisha) One person died. 21 Jun. Bhagalpur (Bihar) 3 persons died. 25 Jun. Jajpur (Odisha) 3 persons died. 27 Jun. Kamrup (Assam) 4 died in Guwahati. 29 Jun. (a) Bokaro (Jharkhand) 2 persons died. (b) Mayurbhanj (Odisha) 2 persons died. 30 Jun. Dhenkanal (Odisha) 2 persons died. 1 Jul. Araria, Banka and Bhagalpur (Bihar) 8 persons died. 2 Jul. Jashpur and Raipur (Chhattisgarh) 3 persons died in Pamgarh. (b) Raichur (Karnataka) One person died in

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
60.	9 Jul.	(a) Raipur (Chhattisgarh)		One person died.	
		(b) Gajapati (Odisha)		3 persons died including a woman and 4 others injured.	
61.	11 Jul.	Mandsaur (Madhya Pradesh)		2 women died.	
62.	15 Jul.	Wardha (Maharashtra)		One person died and other injured.	
63.	29 Jul.	Surguja (Chhattisgarh)		One person died.	
64.	30 Jul.	Baran (Rajasthan)		One girl died in Prempuragaon.	
65.	1 Aug.	(a) Raipur (Chhattisgarh)		3 persons died.	
		(b) Umaria and Vidisha (Madhya Pradesh)		4 persons died in Dhamani and 2 others died in Bhonrasa village resp.	
66.	3 Aug.	Bhilwara (Rajasthan)		One person died.	
67.	11 Aug.	Sawai Madhopur (Rajasthan)		One person died.	

Date/Period	Area Affected	Intensity	Casualties	Extent of damage
21 Aug.	Buldhana, Chandrapur, Nagpur, Nanded and Yeotmal (Maharashtra)		15 persons died including 4 women.	
22 Aug.	Wardha (Maharashtra)		2 women died and 4 others injured.	
24 Aug.	Bellary, Bijapur and (Karnataka)		2 persons died in Hospet, Muddebihal resp.	
30 Aug.	Mandsaur, Neemuch, Raisen, Sagar, and Vidisha (Madhya Pradesh)		13 persons died.	
31 Aug.	(a) Vidisha (Madhya Pradesh)		6 persons died and 2 others injured.	
	(b) Akola and Yavatmal (Maharashtra)		3 women died in Telhara Tehsil and other in Arni Tehsil.	
8 Sep.	(a) Korba (Chhattisgarh)		2 persons died.	
	(b) Amravati (Maharashtra)		7 persons died and 4 others injured.	
11 Sep.	(a) Gaya, Jamui and Saharsa (Bihar)		7 persons died.	
	(b) Ahmednagar (Maharashtra)		5 persons died.	
	21 Aug. 22 Aug. 24 Aug. 30 Aug. 31 Aug.	21 Aug. Buldhana, Chandrapur, Nagpur, Nanded and Yeotmal (Maharashtra)  22 Aug. Wardha (Maharashtra)  24 Aug. Bellary, Bijapur and (Karnataka)  30 Aug. Mandsaur, Neemuch, Raisen, Sagar, and Vidisha (Madhya Pradesh)  31 Aug. (a) Vidisha (Madhya Pradesh)  (b) Akola and Yavatmal (Maharashtra)  8 Sep. (a) Korba (Chhattisgarh)  (b) Amravati (Maharashtra)  11 Sep. (a) Gaya, Jamui and Saharsa (Bihar)  (b) Ahmednagar	21 Aug. Buldhana, Chandrapur, Nagpur, Nanded and Yeotmal (Maharashtra)  22 Aug. Wardha (Maharashtra)  24 Aug. Bellary, Bijapur and (Karnataka)  30 Aug. Mandsaur, Neemuch, Raisen, Sagar, and Vidisha (Madhya Pradesh)  31 Aug. (a) Vidisha (Madhya Pradesh)  (b) Akola and Yavatmal (Maharashtra)  8 Sep. (a) Korba (Chhattisgarh)  (b) Amravati (Maharashtra)  11 Sep. (a) Gaya, Jamui and Saharsa (Bihar)  (b) Ahmednagar	21 Aug. Buldhana, Chandrapur, Nagpur, Nanded and Yeotmal (Maharashtra)  22 Aug. Wardha (Maharashtra)  24 Aug. Bellary, Bijapur and (Karnataka)  2 persons died in Hospet, Muddebihal resp.  30 Aug. Mandsaur, Neemuch, Raisen, Sagar, and Vidisha (Madhya Pradesh)  31 Aug. (a) Vidisha (Madhya Pradesh)  36 Sep. (a) Korba (Chhattisgarh)  (b) Amravati (Maharashtra)  (b) Amravati (Maharashtra)  (b) Amravati (Maharashtra)  (c) Amravati (Maharashtra)  (d) Amravati (Maharashtra)  (d) Amravati (Maharashtra)  (e) Amravati (Maharashtra)  (f) Amravati (Maharashtra)  (f) Amravati (Maharashtra)  (h) Am

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
75.	14 Sep.	Nagpur (Maharashtra)		One person died.	
76.	15 Sep.	Amravati (Maharashtra)		2 persons died.	
77.	23 Sep.	Virudhunagar (Tamil Nadu)		One person died.	
78.	27 Sep.	Gadag (Karnataka)		One woman died.	
79.	30 Sep.	Belgaum and Gadag (Karnataka)		2 persons died.	
80.	1 Oct.	Gadag (Karnataka)		One man died in Nargund Tehsil.	
81.	2 Oct.	Nashik (Maharashtra)		3 persons died.	
82.	5 Oct.	Bagalkote (Karnataka)		One man died in Kotekal village.	
83.	6 Oct.	Bellary, Chikmagalur and Tumkur (Karnataka)		3 persons died including one girl.	
84.	7 Oct.	Damoh (Madhya Pradesh)		One woman died.	
85.	8 Oct.	Bidar & Bijapur (Karnataka)		4 persons died in Aurad and Muddebihal Tehsil resp.	
86.	9 Oct.	Bidar and Dakshina Kannada (Karnataka)		2 women died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
87.	10 Oct.	Bellary, Bengaluru Urban, Gulbarga, Koppal and Tumkur (Karnataka)		One person died each in Kudligi, Alland, Koppal, Surapura Tehsils and Hosahally Palya village.	
88.	15 Oct.	Surajpur (Chhattisgarh)		4 persons died and 2 others injured.	
89.	16 Oct.	Nagpur (Maharashtra)		One person died and 6 others injured.	
90.	12 Dec.	(a) Ashoknagar , Morena and Rajgarh (Madhya Pradesh)		4 persons died including one woman.	
	12 & 13 Dec.	(b) Baran (Rajasthan)		5 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties		Extent of damage
			TABLE -\	/III : THUNDERSTORM	2014	
		Moderate :	l oud neals d	CRITERIA of thunder with frequen	ıt liak	ntning flashes
		Moderate.				wind speed 29 to 74 kmph
		Severe :		thunder and lightning, um wind speed ≥ 75 k		y rains and
1.	19 Mar.	Baksa, Darrang, Marigaon, Nalbari and Udalguri (Assam)	Severe	2 persons died and 2 others injured.	i) ii) iii)	Extensive damage to standing crops reported. Roofs of several houses blown away rendering people homeless.  Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
2	28 Mar.	Baksa and Nalbari (Assam)	Moderate	2 persons injured.	i) ii) iii)	Extensive damage to standing crops reported. Roofs of several houses blown away rendering people homeless.  Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
3.	14 Apr.	Purulia (West Bengal)	Severe	2 persons died.		
4.	17 Apr.	Purulia (West Bengal)	Severe	One person died.		
5.	19 Apr.	Jalpaiguri (West Bengal)	Severe	2 persons died.		

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
6. 2	20 Apr.	(a) Khurda and Jagatsinghpur (Odisha)	Severe	2 persons died.	
		(b) Purba and Paschim Medinipur (West Bengal)	Severe	3 persons died.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
7 2	24 Apr.	South 24-Paraganas	Severe	One person died and 3 others injured.	
8. 2	25 Apr.	Kendrapada and Koraput (Odisha)	Severe	3 persons died.	Number of trees/electric poles uprooted disrupting power supply and road traffic.
9. 2	27 Apr.	Madhubani (Bihar)	Severe	5 persons died and 12 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
10. 2	28 Apr.	Angul, Bhadrak and Ganjam (Odisha)	Severe	4 persons died.	Roofs of some houses blown away.
11. 2	29 Apr.	Balasore and Bhadrak (Odisha)	Severe	2 persons died.	
12. 1	1 May	Dhemaji (Assam)	Severe		<ul> <li>i) Roofs of houses blown away.</li> <li>ii) Trees/electric poles uprooted causing damage to the hundreds of families of 20 villages.</li> </ul>
13. 2	2 May	(a) Darrang (Assam)	Severe	4 persons died and 2 others injured.	About hundreds of dwelling houses affected.
		(b) Nadia (West Bengal)	Severe	One person died.	

Date/Period	Area Affected	Intensity	Casualties	Extent of damage
3 May	(a) Baksa, Barpeta, Bongaigaon and Dhubri (Assam)	Severe	5 persons died and 10 others injured.	
	(b) Birbhum, Burdwan, Coochbehar, Jalpaiguri and Purulia (West Bengal)	Severe	11 persons died and 25 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
	(c ) Raipur (Chhattisgarh)	Severe	3 workers died in Siltara village.	
5 May	(a) Burdwan (West Bengal)	Severe	One person died and other injured.	
	(b) Tirunelveli (Tamil Nadu)	Severe	3 persons died and 2 others injured.	
6 May	(a) Darrang, Kamrup (rural) and Nalbari (Assam)	Severe	2 persons died and 2 others injured.	<ul> <li>i) Roof of several houses blown away affecting 50 families.</li> <li>ii) Some trees/electric poles uprooted disrupting power supply, road traffic.</li> <li>iii) 2 school buildings damaged .</li> </ul>
	(b) Araria and Purnea (Bihar)	Severe	7 persons died.	Number of trees/electric poles uprooted disrupting power supply and road traffic.
11 May	Jalpaiguri (West Bengal)	Severe	2 persons died.	
12 May	Dhubri (Assam)	Severe	2 persons died and 2 others injured.	
	5 May 6 May	Bongaigaon and Dhubri (Assam)  (b) Birbhum, Burdwan, Coochbehar, Jalpaiguri and Purulia (West Bengal)  (c) Raipur (Chhattisgarh)  5 May  (a) Burdwan (West Bengal)  (b) Tirunelveli (Tamil Nadu)  6 May  (a) Darrang, Kamrup (rural) and Nalbari (Assam)  (b) Araria and Purnea (Bihar)  11 May  Jalpaiguri (West Bengal)	Bongaigaon and Dhubri (Assam)  (b) Birbhum, Burdwan, Coochbehar, Jalpaiguri and Purulia (West Bengal)  (c) Raipur (Chhattisgarh)  5 May  (a) Burdwan (West Bengal)  (b) Tirunelveli (Tamil Nadu)  6 May  (a) Darrang, Kamrup (rural) and Nalbari (Assam)  (b) Araria and Purnea (Bihar)  11 May  Jalpaiguri (West Bengal)  Severe	Bongaigaon and Dhubri (Assam)  (b) Birbhum, Burdwan, Coochbehar, Jalpaiguri and Purulia (West Bengal)  (c) Raipur (Chhattisgarh)  Severe  3 workers died in Siltara village.  5 May  (a) Burdwan (West Bengal)  (b) Tirunelveli (Tamil Nadu)  Severe  3 persons died and other injured.  6 May  (a) Darrang, Kamrup (rural) and Nalbari (Assam)  Severe  2 persons died and 2 others injured.  6 May  (b) Araria and Purnea (Bihar)  Severe  7 persons died.  7 persons died.  8 Severe 2 persons died.  7 persons died.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
19.	13 May	Barpeta, Darrang, Goalpara and Kamrup (Assam)	Moderate		<ul><li>i) Roof of several houses blown away affecting more than 100 families.</li><li>ii) Some trees/electric poles uprooted disrupting power supply, road traffic.</li></ul>
20.	25 May	North-24 Paraganas (West Bengal)	Severe	One person died.	
21.	26 May	(a) Darbhanga, Sitamarhi and West Champaran (Bihar)	Severe	4 persons died.	Number of trees/electric poles uprooted disrupting power supply and road traffic.
		(b) Rajnandgaon (Chhattisgarh)	Severe	One person died in Dongargaon.	
22.	30 May	Bastar and Jagadalpur (Chhattisgarh)	Severe	One person died.	
23.	31 May	Burdwan, Murshidabad, Paschim Medinipur and Purulia (West Bengal)	Severe	10 persons died and 11 others injured.	<ul><li>i) Roof of several houses blown away affecting more than 100 families.</li><li>ii) Some trees/electric poles uprooted disrupting power supply, road traffic.</li></ul>
24.	2 Jun.	Coimbatore (Tamil Nadu)	Severe	3 persons died.	<ul> <li>i) Roof of several houses blown away affecting more than 100 families.</li> <li>ii) Some trees/electric poles uprooted disrupting power supply, road traffic.</li> </ul>

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
25.	3 Jun.	(a) Chittor, East Godavari, Kurnool, and Srikakulam (Andhra Pradesh)	Severe	5 persons died.	Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.
		(b) Gariaband, Kanker and Rajnandgaon (Chhattisgarh)	Severe	One person died.	<ul><li>i) Damage to a building reported.</li><li>ii) Roofs of few houses blown away.</li></ul>
		(c) Theni (Tamil Nadu)	Severe		<ul><li>i) Damage to many properties reported.</li><li>ii) About 1500 plantations damaged.</li></ul>
26.	4 Jun.	Namakkal (Tamil Nadu)	Severe		<ul><li>i) 1100 acres plantations affected.</li><li>ii) One lakh plantations completely destroyed.</li><li>iii) 500 acres of beetle leaf affected.</li></ul>
27.	6 Jun.	Jalpaiguri (West Bengal)	Severe	One person died.	
28.	7 Jun.	(a) Amravati (Maharashtra)	Severe		25 houses completely destroyed in Chandurbazar town.
		(b) South Dinajpur (West Bengal)	Severe	One person died.	
29.	9 Jun.	Chennai (Tamil Nadu)	Severe	One person died due to wall collapse.	
30.	10 Jun.	Bilaspur and (Chhattisgarh)	Severe	3 persons died.	Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.
		(b) Burdwan (West Bengal)	Severe	4 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties		Extent of damage
32.	12 Jun.	Begusarai, Darbhanga, East & West Champaran, Samastipur and Sitanarhi (Bihar)	Severe	8 persons died.	i) ii)	Many houses damaged. Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.
33.	15 Jun.	Howrah (West Bengal)	Severe	2 persons died.		
34.	17 Jun.	(a) Jorhat (Assam)	Severe	One person died by falling upon a tree over him.	i) ii)	Roofs of many houses blown away causing extensive damage to the hundreds of families. Number of trees/electric poles uprooted disrupting power supply and road traffic.
		(b) Malda (West Bengal)	Severe	One person died.		
35.	18 Jun.	(a) Sibsagar (Assam)	Moderate		i) ii)	Damage to standing crops reported. One school building damaged.
		(b) Howrah (West Bengal)	Severe	One person died.		
36.	19 Jun.	Ranchi (Jharkahand)	Severe	7 persons died.	i) ii)	Many houses damaged. Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.
37.	27 Jun.	Ranchi (Jharkahand)	Severe	One person died.		
38.	30 Jun.	Ranchi (Jharkahand)	Severe	One person died.		
39.	2 Jul.	(a) Baramulla (Jammu & Kashmir)	Severe		i) ii)	More than 100 houses damaged. Damage to fruit crops reported.
		(b) Howrah (West Bengal)	Severe	2 persons died.		

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
40	6 Jul.	Chatra (Jharkhand)	Severe	One person died.	
41.	7 Jul.	Malda and South Dinajpur (West Bengal)	Severe	6 persons died and 6 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
42.	9 Jul.	Ranchi (Jharkhand)	Severe	5 persons died and 5 others injured.	
43.	10 Jul.	Howrah, Kolkata, Paschim Medinipur and Purulia (West Bengal)	Severe	16 persons died.	<ul> <li>i) Many houses damaged.</li> <li>ii) Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.</li> </ul>
44.	11 Jul.	Kokrajhar (Assam)	Severe	2 persons died.	
45	12 Jul.	Dhemaji (Assam)	Severe	2 persons died.	A number of trees/electric poles uprooted disrupting power supply and road traffic.
46	13 Jul.	Burdwan, North 24- Paraganas and Purulia (West Bengal)	Severe	7 persons died and 2 others injured.	<ul><li>i) Many houses damaged.</li><li>ii) Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.</li></ul>
47.	22 Jul.	Ranchi (Jharkhand)	Severe	2 persons died.	
48	23 Jul.	Hooghly (West Bengal)	Severe	2 persons died and 3 others injured.	
49.	25 Jul.	South Andaman (Andaman & Nicobar)	Moderate		<ul><li>i) Roofs of some houses blown away.</li><li>ii) Some of electric poles/trees uprooted.</li></ul>
50.	26 Jul.	Chatra (Jharkhand)	Severe	3 persons died and 4 children injured.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
51.	26 & 27 Jul.	South 24-Paraganas and Paschim Medinipur (West Bengal)	Severe	3 persons died and 3 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
52.	2 Aug.	Ranchi (Jharkhand)	Severe	2 persons died and one injured.	
53.	3 Aug.	Hazaribagh, Latehar, Lohardaga, Palamu, Ramgarh and West Singhbhum (Jharkhand)	Severe	16 persons died.	<ul> <li>i) Many houses damaged.</li> <li>ii) Some of electric poles/trees uprooted disrupting road traffic/ telecommunications services.</li> </ul>
54	7 Aug.	Bankura and North 24- Paraganas (West Bengal)	Severe	7 persons died.	<ul><li>i) Some trees/electric poles uprooted disrupting power supply and road traffic.</li><li>ii) Roofs of many kachcha houses blown away.</li></ul>
55.	8 Aug.	Ranchi (Jharkhand)	Severe	One person died.	
56.	9 Aug.	Ranchi (Jharkhand)	Severe	One person died.	
57.	13 Aug.	Burdwan (West Bengal)	Severe	2 persons died.	
58.	20 Aug.	Ranchi (Jharkhand)	Severe	One person died.	
59.	21 Aug.	Ranchi (Jharkhand)	Severe	One person died.	
60.	24 Aug.	Hazaribagh and Ranchi (Jharkhand)	Severe	2 persons died.	
61.	27 Aug.	Ranchi (Jharkhand)	Severe	One person died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
62.	22 Aug.	Chirang (Assam)	Severe	One person died in Basugaon village.	
63.	23 Aug.	Karbi Anglong (Assam)	Severe	One person died and other injured in Barpathar village.	
64.	11 Sep.	Koderma (Jharkhand)	Severe	2 persons died and 3 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
65.	12 Sep.	Ranchi (Jharkhand)	Severe	One person died.	
66.	13 Sep.	Howrah and Paschim Medinipur (West Bengal)	Severe	4 persons died and 2 others injured.	Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.
67.	14 Sep.	Gumla, Lohardaga and Ranchi (Jharkahand)	Severe	<ul><li>i) 4 persons died</li><li>6 others injured.</li><li>ii) Few livestock</li><li>perished.</li></ul>	<ul> <li>i) Roofs of kachcha houses blown away.</li> <li>ii) Some trees/electric poles uprooted disrupting power supply, road traffic and telecommunication services.</li> </ul>
68.	17 Sep.	Ranchi (Jharkhand)	Severe	One person died and 9 others injured.	
69.	7 Oct.	Mahabubnagar (Telangana)	Severe	3 persons died.	
70.	17 Oct.	Adilabad and Nalgonda (Telangana)	Severe	4 persons died.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage						
	TABLE - IX : HAILSTORM 2014										
				CRITERIA							
		Slight :	Sparse, usually s	small size and often mixe	ed with rain						
		Mod	derate : Fall abur	ndant enough to whiten (	ground						
		Heav	y : Includes in le	east a proportion of large	estones						

1.	4 Jan.	Morena (Madhya Pradesh)	Moderate		Damage to the crops reported. 20 villages of Morena district affected.
2.	22 Feb.	Ashoknagar, Datia, Raisen, Sagar, Sehore and Vidisha (Madhya Pradesh)	Heavy		Extensive damage to the gram, masur and other crops reported.
3.	24 Feb.	(a) Seoni (Madhya Pradesh)	Moderate	13 persons injured.	Damage to wheat, chana, masur crops reported.
		(b) Bhandara, Nagpur and Wardha (Maharashtra)	Heavy	2 persons died and 24 others injured.	<ul> <li>i) Extensive damage to the wheat, gram, orange and vegetable crops reported.</li> <li>ii) Damage to the crops worth 13,030 ha. area reported.</li> <li>iii) Damage to many houses reported.</li> <li>iv) Several trees/poles/hoardings uprooted disrupting power/electricity supply.</li> </ul>

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
4.	25 Feb.	About 60 villages of Hoshangabad (Madhya Pradesh)	Heavy		Damage to wheat and gram crops reported.
5	26 Feb.	(a) Ashoknagar, Bhopal, Burhanpur, Chhatarpur, Dewas, Morena, Narsinghpur, Neemuch, Dewas, Dhar, Guna, Raisen, Rajgarh, Sagar, Satna, Sehore, Seoni, Shivpuri, Umaria and Vidisha (Madhya Pradesh)	Heavy		<ul> <li>i) Extensive damage to wheat, rice, masur, paddy, gram crops reported.</li> <li>ii) More than 640 villages of different districts affected.</li> </ul>
		(b) Alwar, Baran, Bundi, Chittorgarh, Jaipur, Jhalawar, Jhunjhunu, Jodhpur, Karauli, Kota, Pratapgarh, Rajasmand, Sanganer, Sikar and Udaipur (Rajasthan)	Heavy	Many birds perished.	<ul> <li>i) Extensive damage to the rabbi crops and vegetables of about 750 villages of all districts reported.</li> <li>ii) Damage to many vehicles reported.</li> <li>iii) Several electricity lines damaged disrupting power supply.</li> </ul>
6	28 Feb.	Jaipur (Rajasthan)	Heavy		Damage to the rabbi crops reported.
7.	1 Mar.	Dhamtari and Gariaband (Chhattisgarh)	Heavy		<ul><li>i) Damage to the crops reported.</li><li>ii) Damage to kachcha houses reported.</li></ul>
8.	4 Mar.	Warangal (Andhra Pradesh)	Heavy	3 persons died and about 200 others injured.	

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
9	7 Mar.	Aurangabad, Beed, Latur, Nagpur, Parbhani, Sangli and Solapur (Maharashtra)	Heavy	2 persons died.	Damage to the standing crops reported.
10.	8 Mar.	(a) Bagalkote (Karnataka)	Heavy	2 persons injured severely in Jamakhandi Tehsil.	
		(b) Alirajpur (Madhya Pradesh)	Moderate		Crops damaged.
11.	9 Mar.	(a) Pune and Yavatmal (Maharashtra)	Heavy	One died in Pusad town while other injured.	Damage to the crops and orchards in Indapur, Baramati and Junnar reported.
		(b) Alwar, Hanumangarh and Jhunjhunu (Rajasthan)	Heavy	injureu.	Damage to mustard crops reported in Riwali, Nohar & Tibbi, Chiua & Buhana resp.
12.	10 Mar.	Betul, Damoh, Guna, Rajgarh, Sagar and Vidisha	Moderate		Crops damaged.
13.	11 Mar.	Solapur (Maharashtra)	Moderate		Damage to rabbi crops wheat, gram, cotton, jawar, onion, pomegranates, papaya, sweet lime, grape orchards reported.
14.	12 Mar.	(a) Garhwa (Jharkhand)	Heavy		Damage to the crops reported.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Akola, Amaravati, Beed, Chandrapur, Latur, Osmanabad, Parbhani, Wardha, Washim and Yeotmal (Maharashtra)	Heavy	Thousands of livestock, birds perished.	Damage to the green fodder reported. Wheat, jawar, gram, soya, cotton affected.
		(c ) Nagpur and Osmanabad (Maharashtra)	Heavy		Damage to orange, wheat, peas in Narkhed, Swargaon, Maplapur and Yenikoni town/village reported.
15.	13 Mar.	Ahmednagar, Dhule, Nandurbar and Nasik (Maharashtra)	Heavy		<ul><li>i) Damage to green-house reported.</li><li>ii) Damage to vegetables and raisins reported.</li></ul>
16.	22 Mar.	North-24 Paraganas (West Bengal)	Heavy	One person died.	Damage to the crops reported.
17.	24 Mar.	Jaipur (Rajasthan)	Heavy	Many birds perished.	<ul><li>i) Extensive damage to rabbi crops and vegetables reported.</li><li>ii) Damage to many vehicles reported.</li></ul>
18.	6 Apr.	Bikaner and Jaisalmer (Rajasthan)	Heavy		Damage to the rabbi crops reported.
19.	13 Apr.	Solapur (Maharashtra)	Heavy	One child died.	
20.	14 Apr.	Mahaboobnagar (Andhra Pradesh)	Heavy	One person died.	
21.	16 Apr.	(a) Khunti (Jharkhand)	Moderate		Damage to the crops reported.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Nagpur (Maharashtra)	Moderate		Several trees and tin shades blown away.
22.	17 Apr.	Jashpur (Chhattisgarh)	Heavy	2 persons died.	
23.	19 Apr.	Aurangabad, Buldhana and Washim (Maharashtra)	Moderate		Damage to the standing crops of peanut and awla reported.
24.	30 Apr.	Usmanabad (Maharashtra)	Moderate		Extensive damage to the jawar crops reported.
25.	13 May	Badgam, Pulwama and Shopian (Jammu & Kashmir)	Heavy		Extensive damage to apple, pear and paddy saplings reported.
26.	19 May	Mahaboobnagar, Rangareddy and Warangal (Andhra Pradesh)	Heavy	9 persons died.	Damage to crops reported.
27.	27 May	Mahaboobnagar, Khammam and Warangal (Andhra Pradesh)	Heavy	9 persons died.	Damage to 1,000 quintals paddy crops reported.
28.	28 May	Nashik (Maharashtra)	Moderate		Damage to grapes, pomegranate orchards reported.
29.	30 May	(a) Medak and Rangareddy (Andhra Pradesh)	Heavy	3 persons died.	Damage to crops reported.

S.N.	Date/Period	Area Affected	Intensity	Casualties	Extent of damage
		(b) Kupwara (Jammu & Kashmir)	Heavy		Damage to apple and walnut reported in more than 8 villages of Handwara.
30.	1 Jun.	(a) Khandwa (Madhya Pradesh)	Moderate		<ul><li>i) More than 2 dozen houses damaged.</li><li>ii) Trees uprooted.</li></ul>
		(b) Pune (Maharashtra)	Moderate		Damage to crops and fruit orchards reported in Junnar and Indapur Tehsils.
31.	3 Jun.	Trichy (Tamil Nadu)	Moderate	Few livestock perished.	Damage to many plantations reported.
32	24 Jun.	Badgam (Jammu & Kashmir)	Heavy		Damage to the crops and fruit orchards in several villages reported.
33.	26 Jun.	Baramulla (Jammu & Kashmir)	Heavy		<ul><li>i) Damage to the crops and orchards in several areas of Rafiabad reported.</li><li>ii) Partial damage to the few houses reported.</li></ul>
34.	1 Jul.	Baramulla (Jammu & Kashmir)	Heavy		Extensive damage to the cherry, apple and paddy crops reported.
35.	7 Oct.	Damoh (Madhya Pradesh)	Moderate	One woman injured.	Damage to the crops reported in Bari village.
36.	9 Oct.	Sheopur (Madhya Pradesh)	Heavy		Extensive damage to the sugarcane, tomato, chilli, Soyabean crops reported in Budhera, Sasharam, Dhondha,Chilmani and Khurjan villages reported.
37.	18 Oct.	(a) Parts of Bhopal (Madhya Pradesh)	Moderate	2 girls injured.	Trees uprooted.
		(b) Parts of Manipur	Heavy	One person died.	
38.	12 Dec.	Nasik (Maharashtra)	Moderate		Damage to grape and pomegranate crops reported.

**TABLE XI – FLOODS AND HEAVY RAINS - 2014** 

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		STATES			
		ANDHRA PRADESH			
1.	*2-12 May	Adilabad, Karimnagar, Khammam, Krishna, Kurnool, Medak, Mahaboobnagar, Nalgonda, Nizamabad, Ranagareddy, Warangal and West Godavari	Heavy rains	86 livestock perished.	<ul> <li>i) Damage to crops in 2,037 hectares reported.</li> <li>ii) Damage to horticulture in 36,380 hectares reported.</li> <li>iii) Damage to 86 houses reported.</li> </ul>
2.	6-9 Sep.	East & West Godavari and Srikakulam	Heavy rains	4 persons died.	Extensive damage to crops in 12,667 hectares reported.
	* As per data re	eceived from Disaster Manaç	gement, Govt. of AF	<b>.</b>	
		ARUNACHAL PRADESH			
1.	14-18 Aug.	East Siang and Lohit	Heavy rains	One person died in a landslide in East Siang.	<ul> <li>i) Extensive damage to standing crops reported.</li> <li>ii) A wooden bridge of Kadam river washed away disrupting communication along NH 52.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
*	Whole year			<ul><li>i) 56 human lives lost.</li><li>ii) 1992 cattle lost.</li></ul>	<ul><li>i) 0.833 million population affected.</li><li>ii) 2742 houses damaged.</li><li>iii) Crops in 0.023 m. ha. damaged.</li></ul>
		ASSAM			
1.	22-28 Jun.	Darrang, Kamrup (Metro), Lakhimpur, Sonitpur and Udalguri	Flood (Brahmaputra and its tributories)	8 persons died including 4 died in a landslide.	<ul> <li>i) Damage to standing crops reported.</li> <li>ii) About 24,393 people affected of 43 villages affected.</li> <li>iii) Landslide reported.</li> </ul>
2.	8-10 Jul.	Dhemaji	Heavy rains	One person died.	<ul><li>i) Damage to standing crops reported.</li><li>ii) About 900 people of 100 villages affected.</li></ul>
3.	14-19 Jul.	Sonitpur	Heavy rains	One person died.	<ul> <li>i) About 10 villages affected.</li> <li>ii) Standing crops in 100 hectares damaged.</li> <li>iii) Due to beach embankment flash flood occurred in Gohpur Town causing extensive damage on 19 Jul.</li> </ul>
4.	23-30 Jul.	Cachar, Lakhimpur and Sonitpur	Flood (Singra and Soansiri rivers)	16 persons died out of which 5 others died in a massive landslide in Cacher Manipur boarder area.	<ul> <li>i) Extensive damage to the standing crops reported.</li> <li>ii) About 25,000 people of 1200 villages affected.</li> <li>iii) NH-52 beached at the two places.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
5.	15-31 Aug.	Barpeta, Bongaigaon, Darrang, Dhemaji, Dhubri, Dibrugarh, Goalpara, Golaghat, Jorhat, Kamrup (Metro), Kokrajhar, Lakhimpur, Morigaon, Nagaon, Sibsagar and Sonitpur	Flood (Brahmaputra and its tributories)	20 persons died.	<ul> <li>i) Extensive damage to the crops about 73,772,03 ha. crop land affected.</li> <li>ii) About 16,26,304 population affected.</li> <li>iii) About 430 sq. km. area of Kaziranga National Park and Pobitora wildlife sanctuary inundated.</li> </ul>
6.	22-30 Sep.	Barpeta, Darrang, Dhemaji, Dhubri, Goalpara, Kamrup (Metro), Kokrajhar, Lakhimpur, Morigaon, Nagaon, Sonitpur and Udalguri.	Flood (Brahmaputra and its tributories)	More than 45 people including 3 died in a landslide in Guwahati.	<ul> <li>i) Extensive damage to the crops about 1,60,128,34 ha. reported.</li> <li>ii) About 3,11,001 population affected.</li> <li>iii) More than 2,500 villages marooned.</li> </ul>
*	Whole year	Area affected 0.002 m.ha.		i) 3 human lives lost. ii) One cattle lost.	i) 0.003 million population affected. ii) Crops in 0.002 m. ha. damaged.
		BIHAR			
1.	14-27 Aug.	Darbhanga, East Champaran, Madhubani, Muzaffarpur, Nalanda, Nawada, Saharsa, Supaul and West Champaran	Flood (Gandaki and Kosi)	19 persons died including 5 died in wall collapse, 4 swept away and other drowned.	<ul> <li>i) Number of villages inundated.</li> <li>ii) About 4 lakh people badly affected.</li> <li>iii) Thousands of people shifted to the safer places.</li> <li>iv) Damage to many kachcha houses reported.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
2.	14-20 Sep.	Banka, Begusarai, Bhagalpur, Gaya, Khagaria and Kishanganj	Heavy rains	28 persons died.	<ul> <li>i) Damage to the crops reported.</li> <li>ii) Number of villages inundated.</li> <li>iii) Many people shifted to safer places.</li> <li>iv) Damage to many kachcha houses reported.</li> </ul>
3.	14 Oct.	Madhubani, Muzaffarpur, Sheohar and Sitamarhi	Heavy rains	One person died.	Damage to several houses reported.
*	Whole year	Area affected 0.500 m.ha.		i) 113 human lives lost. ii) 30 cattle lost.	<ul><li>i) 2.600 million population affected.</li><li>ii) 13166 houses damaged.</li><li>iii) Crops in 0.100 m. ha. damaged.</li></ul>
		CHHATTISGARH			
1.	22 & 23 Jul.	Bilaspur and Durg	Heavy rains	3 persons died.	About 250 villages affected badly.
2.	30 Jul.	Jagadalpur	Heavy rains		Normal life paralysed.
3.	13-15 Oct.	Bastar, Durg, Mahasamund, Mungeli, Jagadalpur, Raipur and Surguja	Heavy rains	6 persons died due to tree fell and house collapse incidents.	<ul><li>i) Damage to several houses reported.</li><li>ii) Trees/electric poles uprooted.</li><li>iii) Normal life paralysed.</li></ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		HIMACHAL PRADESH			
1.	15-18 Jul.	Kangra, Kullu, Mandi and Sirmaur and Una (Himachal Pradesh)	Heavy rains	One person died while other drowned in Sirmaur.	<ul> <li>i) Damage to the crops reported.</li> <li>ii) Power generations shut down in Kullu.</li> <li>iii) Landslides reported at various places including Kumarhatti-Nahan NH.</li> </ul>
2.	23-30 Jul.	Kangra, Kullu, Mandi and Shimla	Heavy rains	3 persons died due to landslide in Kangra.	<ul><li>i) Landslides reported at many places.</li><li>ii) Damage to the crops and apple orchards reported.</li></ul>
3.	6-8 Aug.	Bilaspur and Mandi	Heavy rains	4 persons washed away in their car while other died in Mandi.	<ul> <li>i) Damage to the crops reported.</li> <li>ii) Landslides reported.</li> <li>iii) NH-72, Kangra –Chadigarh and Dharamsala – Hosiarpur roads blocked due to landslide.</li> </ul>
4.	13- 15 Aug.	Hamirur and Mandi	Heavy rains	9 persons died in different incidents while 4 others washed away.	<ul> <li>i) Extensive damage to the maize and tomato crops reported.</li> <li>ii) Landslides reported at many places causing damages to the houses and blocking NH Shimla-Kangra, Chandigarh-Manali and Dharamshala-Hoshiarpur.</li> </ul>
*	Whole year	Area affected 1.780 m.ha.		i) 45 human lives lost. ii) 698 cattle lost.	<ul><li>i) 0.481 million population affected.</li><li>ii) 1963 houses damaged.</li><li>iii) Crops in 0.014 m. ha. damaged.</li></ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		JAMMU & KASHMIR			
1.	22 Jan.	Udhampur	Heavy rains	2 persons buried alive in a house collapse in Kud area.	
2.	24 Jul.	Jammu	Heavy rains	Many cattle heads washed away.	<ul><li>i) Damage to the standing crops reported.</li><li>ii) Many houses, shops and structures damaged.</li></ul>
3.	31 Jul.	Pulwama	Heavy rains		A masjid, some houses and cow shed damaged in a village Gundbal.
4.	2 <sup>nd</sup> week of Sep.	Most parts of Jammu & Kashmir (Worst affected districts Anantanag, Budgaum, Baramulla, Ganderbal, Kulgam, Poonch, Pulwama, Rajouri, Reasi and Srinagar.	Flood (Jehlum,Chenab, Tawi)	i) More than 200 people died including a bus carrying 63 passengers washed away in flash flood in Rajouri. ii) About 2,500 livestock perished.	<ul> <li>i) Extensive damage to agricultural land and infrastructure reported.</li> <li>ii) River Jhelum had breached embankments in several parts.</li> <li>iii) About 2600 villages submerged.</li> <li>iv) Extensive damage to lakhs of houses reported.</li> <li>v) Massive landslides reported.</li> <li>vi) Thousands of Vaishnavdevi pilgrims stranded.</li> <li>vii) Many major and minor roads cut off and number of bridges washed away.</li> <li>viii) Thousands of people shifted to safer places.</li> <li>ix) More than 4 lakh people stranded for many days.</li> <li>x) NH Jammu- Srinagar closed due to massive landslides at various places.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
5.	9 Nov.	Anantanag	Heavy rains (Cloudburst)	14 persons injured in Patti Samdal village, Kokernag.	Damage to the property worth lakhs of rupees reported.
*	Whole year			298 human lives lost.	0.275 million population affected.
		JHARKHAND			
1.	12-14 Oct.	Parts of Jharkhand	Heavy rains	Several persons injured.	About 300 houses damaged. Many people shifted to safer places.
*	Whole year	Area affected 0.022 m.ha.		i) 3 human lives lost. ii) One cattle lost.	i) 0.199 million population affected. ii) 528 houses damaged. iii) Crops in 0.022 m. ha. damaged.
		KARNATAKA			
1.	8-10 Mar.	Belguam and Bijapur	Heavy rains	Belguam: One woman died when a tree fell on her and other due to wall collapse. Bijapur: One person and a child died in Sindagi Tehsil due to wall collapse.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
2.	19 & 20 May	Chamarajnagar and Shimoga	Heavy rains	5 persons including one woman died due to house collapse.	
3.	2-6 Jun.	Bellary, Gadag and Koppal	Heavy rains	One woman died due to house collapse in Sandur Tehsil. One boy died in Gadag city and 3 others died when a tree and electric pole fell on them in Ganavathy town resp.	
1.	28 & 29 Jun.	Banglore & Gadag	Heavy rains	2 women died due to house collapse.	
5.	4-9 Jul.	Banglore Rural, Gadag, Haveri and Kolar	Heavy rains	4 persons died due to house collapse and other swept away.	
6.	31 Jul.	Haveri and Uttara Kannada	Heavy rains	One man and a girl died in house collapse in Ranebennur town and other swept away in canal in Mundagod Tehsil resp.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
7.	1-8 Aug.	Chickmagalur, Dakshina Kannada, Dharwad, Raichur and Uttara Kannada.	Heavy rains	One person swept away in Koppa Tehsil, 4 persons died due to wall collapse in Karkala & Hubli Tehsil, other swept away in Krishna river in Devadurga Tehsil and 2 persons swept away in Honavar and Joida Tehsil resp.	
8.	23-31 Aug.	Bidar, Bijapur, Chamarajanagar, Gadag, Gulbarga, Raichur, Tumkur and Yadgir.	Heavy rains	2 persons died, 6 persons swept away, 7 others died due to house collapse.	
9.	1 Sept.	Chitradurga	Heavy rains	One woman died due to house collapse.	i) 12,310 houses damaged. ii) Crops in 0.228 m. ha. damaged.
10.	2 Sept.	Gulbarga	Heavy rains	One man swept away in canal in Sedam Tehsil.	
11.	24 Sept.	Bellary	Heavy rains	One man died due to house collapse in Kampli town.	
12.	1 Oct.	Tumkur	Heavy rains	One man died due to house collapse.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
13.	5 - 9 Oct.	Bengalur Urban, Chikmagalur and Dharwad	Heavy rains	One girl and 2 women swept away in a canal in Bilekalli and Yegati village, other died due to house collapse in Begaluru city while one person died when a sheet of the bus stand roof fell on him in Navalgund town resp.	
14.	25 Oct.	Bellary	Heavy rains	One person swept away in a canal.	
15.	28 Oct.	Bengaluru Urban	Heavy rains	One woman died due to house collapse.	
		KERALA			
1.	7-9 Mar.	Wayanad	Heavy rains		<ul> <li>i) One house damaged completely.</li> <li>ii) More than 100 banana plants uprooted in Athiyoor colony.</li> <li>iii) Several bamboo trees uprooted and fell across the National Highway leading to traffic disruption.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
2.	25 Mar.	Wayanad	Heavy rains		More than 1,000 banana and tapioca plantations uprooted causing damage worth rupees 4 lakhs reported.
3.	10-16 Apr.	Alappuzha, Kasaragod, Kozhikode, Thiruvananthapuram, Thrissur and Wayanad	Heavy rains	6 persons died including 2 children.	<ul> <li>i) Thousands of banana, rubber and betel-leaves plantations and crops in Neyyattinkara &amp; Katakkada Tehsils damaged.</li> <li>ii) Several electric and electronic equipments damaged.</li> <li>iii) Damage worth rupees lakhs reported.</li> <li>iv) Roofs of several houses blown away.</li> <li>v) 10 houses completely and 15 partially damaged.</li> <li>vi) Low lying areas inundated.</li> <li>vii) Several trees/electric poles uprooted causing disruption in vehicular traffic and power supply.</li> </ul>
4.	19-30 Apr.	Thiruvananthapuram and Wayanad	Heavy rains		<ul> <li>i) About 10,000 banana plantations in more than 3 acres of land damaged. Jackfruit and mango trees uprooted.</li> <li>ii) Acres of banana, tapioca and coconut plantations damaged.</li> <li>iii) About 100 houses completely and 400 partially damaged.</li> <li>iv) About 160 electric poles and more than 50 trees uprooted causing disruption traffic and power supply.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
5.	3 -9 May	Alappuzha, Ernakulam, Kozhikode, Malappuram Thrissur, Thiruvananthapuram and Wayanad	Heavy rains	2 persons drowned, 2 persons died as a tree fell on him and 3 others injured in Thiruvananthapuram.	Thiruvananthapuram:  Varkala town:  i) Damage to crops reported.  ii) Many electric cable lines and about 15 electric posts damaged. Low tension wires broke causing disruption in power supply.  iii) About 70 houses and few structures damaged.
				2 persons drowned in Kozhikode, other in Malappuram as a branch of a tree fell over her and 10 others injured.	<ul> <li>i) About 32 houses damaged partially.</li> <li>ii) Tapioca, banana, rubber and other crops damaged.</li> <li>iii) About 7.20 lakhs worth rupees damage reported.</li> <li>iv) 11 KV lines broke causing disruption in power supply.</li> </ul>
					Pallichal village:
					More than 2 lakhs banana plantations damaged.
					Malayankeezhu village:
					<ul> <li>i) Acres of banana, tapioca, other crops damaged.</li> <li>ii) Loss worth lakhs rupees reported.</li> <li>iii) Several trees uprooted and roofs of many houses blown away.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
					Parashala town:
					11 KV line with 4 Electric posts uprooted causing disruption in power supply.
					Sreekaryam & Malayankeezhu:
					<ul><li>i) Low lying areas flooded.</li><li>ii) Roof tops of several houses blown away.</li><li>iii) 2 houses damaged completely</li></ul>
				2 persons died and	Wayanad:
				other injured due to tree fell on them in Wayanad.	<ul> <li>Kalpetta, Mananthavady &amp; Sulthan Bathery towns:</li> <li>i) Extensive damage to about 500 hectares of crops reported.</li> <li>ii) Extensive damage to banana, tapioca, arecanut plantations reported.</li> <li>iii) More than 5,000 ripe banana crops damaged causing about 6.5 lakhs damage reported.</li> <li>iv) About 10,000 banana plantations uprooted.</li> <li>v) Several houses completely and partially damaged.</li> <li>vi) Damage to a transformer reported due to a huge tree fell on it disrupting 11 KV lines at many places.</li> <li>vii) Roofs of many houses blown away.</li> <li>viii) Several trees uprooted causing traffic disruption.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
					Malappuram:
					About 620 acres of paddy fields sumerged.
					Alappuzha:
					About 800 acres of agricultural land submerge and crops damaged in.
6.	6 Jun	Wayanad	Heavy rains		About 2000 banana plantations uprooted.
7.	12-14 Jun.	Thiruvananthapuram	Heavy rains		<ul><li>i) Damage to 12 houses reported.</li><li>ii) People shifted to relief camps.</li></ul>
8.	21 Jun.	Idukki	Heavy rains		<ul><li>i) Landslide damaged the iron bridge on nation highway.</li><li>ii) Low lying areas and few houses inundated.</li></ul>
9.	12-15 Jul.	Kannur, Kasaragod,	Heavy rains	2 persons died and 2	Kannur:
		Kozhikode, Malappuram and Wayanad.		others missing in Kannur.	<ul> <li>i) 5 houses damaged completely and 41 partially.</li> </ul>
					ii) 11 hectares of standing crops damaged. iii) Agricultural loss rupees 5.4 crores reported.
				5 persons died in	Kasaragod:
				Kasargod.	<ul><li>i) Extensive damage to arecanut, coconut and banana plantations reported.</li><li>ii) Number of houses damaged.</li></ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
				2 persons died in Kozhikode.	Kozhikode:
					<ul> <li>i) Low lying areas inundated.</li> <li>ii) Extensive damage to crops in nearly 12 hectares land of rupees 9.4 crores reported iii) About 14 houses damaged.</li> </ul>
				2 persons died in	Malappuram:
				Malappuram.	<ul><li>i) 36 houses destroyed completely and 246 partially.</li><li>ii) Loss of rupees 1.42 crores reported.</li></ul>
					Wayanad:
					Ambalavayal village, Kalpetta, Mananthavady Pandhaloor and Sulthan Bathery towns:
					<ul> <li>i) Low lying areas and crops submerged.</li> <li>ii) About 32 families shifted to relief camps.</li> <li>iii) Landslide reported.</li> <li>iv) Several trees uprooted disrupting power supply and road traffic.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
10.	1 <sup>st</sup> week of Aug.	Alappuzha, Kannur, Kasaragod, Kozhikode, Kottayam, Malappuram, Palakkad, Pathanamthitta, Thrissur Thiruvananthapuram and Wayanad	Heavy rains	One person died in Alappuzha.  2 persons died and other missing in Idukki.	i) Low areas inundated. ii) Vegetable crops submerged. iii) 5 acres of paddy fields submerged. iv) About 50 houses damaged partially. v) 500 families shifted to relief camps. vi) Damage to one school building reported. vii)Extensive damage to school building reported.
				2 persons died and other missing while one person drowned in Kannur.	<ul> <li>Kannur:</li> <li>i) One house damaged completely and 25 partially.</li> <li>ii) Landslide reported in Kelakattum &amp; Periyothu areas.</li> <li>iii) About 67 families shifted to relief camps.</li> </ul>
				3 persons died, 2 others drowned and 3 others missing in Kasargod.	Kasaragod: Several houses inundated causing 15 families shifted to relief camps.
				2 persons drowned and other missing in	Kozhikode:

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
				4 persons died in Kottayam.  4 persons died, one missing and 2 others injured in house collapse in Palakkad.  One person died and other drowned in Pathanamthitta.	<ul> <li>Kottayam:</li> <li>i) About 4 houses damaged completely and 428 partially.</li> <li>ii) Damage worth around rupees 32 lakhs reported.</li> <li>iii) About 127 persons shifted to relief camps.</li> <li>Wyanad:</li> <li>i) Well caved in Tharuvana town and Mananthavady tehsil.</li> <li>ii) About 41 persons shifted to relief camps.</li> </ul>
				One person died in Thrissur.	Thiruvananthapuram:  Few houses damaged.
11.	22-24 Aug.	Kottayam, Pathanamthitta, Thiruvananthapuram Wayanad	Heavy rains		<ul> <li>Kottayam:</li> <li>i) Damage to about 2 acres crops in Irattupetta, Poojar, Laipally areas reported.</li> <li>ii) 300 mts of Kaduthuruthy-Karikkad Muvattupuzha valley irrigation canal washed away.</li> <li>iii) Landslide reported.</li> <li>iv) Damage to food products in Changanacherry area worth rupees 5 lakhs reported.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
				3 persons died in Pathanamthitta.	Pathanamthitta:
					i) Damage to the crops in more than 300 acres reported.
					ii) About 175 people shifted to safer places.
				One person died and 7 others missing in	Thiruvananthapuram:
				Thiruvananthapuram.	<ul> <li>i) Extensive damage to paddy, banana, rubber, tapioca, coconut, vegetables in more than 500 acres of cropland reported. Several trees uprooted causing damage to some structures and disrupting power supply.</li> <li>ii) About 100 acres of standing crops damaged. in Kaaret area.</li> <li>iii) Lanslides reported in Ponmudi-Vithura an Bonakadu areas causing traffic disruption.</li> <li>iv) More than 100 houses damaged causing shifting of about 1500 people to relief camps</li> </ul>
					Wayanad:
					<ul> <li>i) About 300 hectares of banana, coffee, pepper ginger, vegetables, paddy crops damaged.</li> <li>ii) About 115 families shifted to 6 relief camps.</li> <li>iii) About 20 shops washed away.</li> <li>iv) Landslide in Thamaraserry ghat reported.</li> <li>v) One house completely and 25 houses partially damaged.</li> <li>vi) Damage to bridges and canals reported.</li> <li>vii) Damage worth rupees 4.4 crores reported.</li> </ul>

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
12.	1-3 Sep.	Thiruvananthapuram	Heavy rains		<ul> <li>i) Damage to the crops reported.</li> <li>ii) Landslides reported.</li> <li>iii) Damage to few houses and some structures reported.</li> <li>iv) House- hold electric appliances damaged.</li> <li>v) About 50 families shifted to safer places.</li> <li>vi) One well caved in at Vengaranmood village.</li> </ul>
13.	26 Sep.	Thiruvananthapuram	Heavy rains		Damage to banana, tapioca, vegetable crops reported.
*	Whole year	Area affected 0.019 m.ha.		122 human lives lost.	i) 0.032 million population affected. ii) 7197 houses damaged. iii) Crops in 0.019 m. ha. damaged.
		MADHYA PRADESH			
1.	15-16 Jul.	Burhanpur and Vidisha	Heavy rains	7 boys died due to wall collapse in Daulatpur area and 9 others injured while other died in Vidisha.	
2.	20-25 Jul.	Betul, Harda, Hoshangabad, Indore, Khargone and Raisen	Heavy rains	16 persons died.	Damage to the standing crops reported.  More than 1200 villages affected.

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		MAHARASHTRA			
1.	3 & 4 Mar.	Washim	Heavy rains		Extensive damage to the gram crops reported.
2.	9 Mar.	Sangli	Heavy rains	One woman died due to wall collapse.	
3.	19 Apr.	Buldhana, Pune and Washim	Heavy rains	About 10,000 poultry birds in Pune perished.	Damage to the corn, peanut and awla crops reported.
4.	10 Jun.	Ahmednagar	Heavy rains	2 persons died due to wall collapse.	
5.	13 Jul.	Mumbai	Heavy rains	One person died due to roof fell in Colaba, 3 others due to wall collapse in Shiwadi and Malad.	
6.	23, 25 & 28 Jul.	Nagpur (Maharashtra)	Heavy rains	One student drowned.	<ul><li>i) Many areas flooded.</li><li>ii) An electric substation damaged.</li></ul>
7.	31 Jul.	Mumbai	Heavy rains	One died due to landslide in Chembur.	
8.	5 Aug.	Pune (Malin village, Ambegaon Taluka)	Heavy rains	144 people buried under the massive landslide.	Most of the houses of the village were hit by the landslide.

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
9.	5 & 6 Aug.	Bhandara, Gondia and Ratnagiri	Heavy rains	3 persons died.	Landslides reported in Khed taluka and Poladpur-Mahabaleshwar road.
					Bhandara, Gondia
					<ul><li>i) 7 houses completely and 100 houses partially damaged.</li><li>ii) 33 cattle sheds damaged.</li></ul>
10.	8 & 9 Sep.	Chandrapur, Gadchiroli and Wardha	Heavy rains	One woman died due to house collapse.	<ul><li>i) Armori village submerged.</li><li>ii) Several linking roads cut off.</li></ul>
		MEGHALAYA			
1.	23-30 Sep.	Districts of Garo hills	Heavy rains	About 45 persons died while many of them died in the massive landslides.	<ul> <li>i) Landslides reported.</li> <li>ii) Many villages inundated affecting about 1 lakh people in the district.</li> <li>iii) Many houses washed away.</li> <li>iv) People shifted to safer places.</li> <li>v) NH-51, roads and many bridges damaged and washed away.</li> </ul>
*	Whole year	Area affected 0.016 m.ha.		i) 66 human lives lost. ii) 8822 cattle lost.	i) 0.341 million population affected. ii) 10701 houses damaged. iii) Crops in 0.016 m. ha. damaged.

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		ODISHA			
1.	27 & 28 May	Balangir and Nayapara	Heavy rains	One person died and other injured.	
2.	19-24 Jul.	Balasore, Bhadrak, Bargarh, Jajpur, Kalahandi, Keonjhar, Khurda, Mayurbhanj, Nuapada and Sundergarh	Heavy rains	<ul><li>i) 12 persons died.</li><li>ii) 38 livestock perished.</li></ul>	<ul> <li>i) Damage to the crops in 11,000 ha. cropland reported.</li> <li>ii) Baitarani river breached its embankment.</li> <li>iii) Damage to many houses reported.</li> <li>iv) About 10,000 people were evacuated and moved to safer places.</li> <li>v) Gushing waters have washed roads while disrupting public transport in many places.</li> </ul>
3.	27-30 Jul.	Bargarh, Balangir, Boudh, Kandhamal, Koraput and Nayagarh	Heavy rains	3 persons died.	<ul><li>i) Extensive damage to the crops reported.</li><li>ii) Damage to many houses reported.</li></ul>
4.	3-16 Aug.	Most parts of Odisha (worst affected Bhadrak, Cuttack, Jagatsinghpur, Jajpur, Jharsuguda, Kendrapada, Khurda and Puri)	Flood (Baitrani, Budhaba langa, Subarnarekha and Mahanadi)	<ul><li>i) 45 people died.</li><li>ii) 149 livestock perished.</li></ul>	<ul> <li>i) Damage to the crops in 3,67,691 ha. area affected.</li> <li>ii) Damage to the 45,953 houses reported.</li> <li>iii) Across 23 districts near about 830 villages marooned.</li> <li>iv) 32.9 lakh people affected.</li> <li>v) Thousands of people shifted to safer places.</li> </ul>
5.	5-9 Sep.	Boudh, Gajapati, Khandhamal, Nayagarh and Subarnapur	Heavy rains	3 persons died.	

	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		PUNJAB			
1.	4-10 Sep.	Amritsar, Fazilka and Gurdaspur	Heavy rains	22 persons died in different incidents of house and roof collapse.	Low lying villages inundated.
*	Whole year	Area affected 0.039 m.ha.		i) 44 human lives lost. ii) 954 cattle lost.	i) 0.400 million population affected. ii) 36429 houses damaged. iii) Crops in 0.039 m. ha. damaged.
		RAJASTHAN			
1.	29 Jul.	Bhilwara	Heavy rains	One woman died in Mankadigaon.	
2.	3 Aug.	Hanumangarh	Heavy rains	2 persons died due to roof collapse in Sotigaon.	
3.	11 Aug.	Ajmer, Baran, Dausa, Jaipur and Tonk	Heavy rains	19 persons died due to house collapse and few others swept away.	
4.	5 Sep.	Sri Ganganagar	Heavy rains	2 persons died.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		TAMIL NADU			
1.	8 Mar.	Coimbatore Rural	Heavy rains	One girl washed away.	
2.	6-8 May	Kanniyakumari, Madurai,	Heavy rains	Kanniyakumari:	i) Few houses damaged.     ii) Many trees/electric poles uprooted disrupting
		Nilgiris and Theni		One child washed away.	road traffic and power supply.  iii)Landslides reported in Theni district.
				Madurai:	
				One girl died and 2 others injured due to wall collapse.	
				Nilgiris:	
				2 women died and other injured due to tree fell on them.	
3.	21 May	Coimbatore and Krishnagiri	Heavy rains	Coimbatore:	Krishnagiri:
				2 persons died due to wall collapse.	i) About 2,000 plantations and many trees uprooted.
				Krishnagiri :	ii) Several houses and huts damaged.
				About 5,000 chickens in 2 poultry sheds died.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
4.	22 Aug.	Erode	Heavy rains	2 persons died.	
5.	23 Sep.	Dindigul, Erode and Virudhunagar	Heavy rains	2 persons washed away in Erode and other died in Virudhunagar.	12 houses damaged due to landslide in Kodaikanal.
		TELANGANA			
1.	6-9 Sep.	Adilabad, Khammam, Karimnagar and Warangal	Heavy rains	4 persons died.	<ul><li>i) Exrensive damage to crops in 11,777 hectares reported.</li><li>ii) Damage to about 963 houses reported.</li></ul>
2.	27 Oct.	Nalgonda	Heavy rains		Damage to the paddy, cotton crops reported.
		TRIPURA			
1.	19-25 Jun.	Parts of Tripura	Heavy rains		400 families rendered homeless.

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
		UTTAR PRADESH			
1.	14-27 Aug.	Most parts of Uttar Pradesh (the worst affected districts Bahraich, Shravasti, Balrampur, Gonda, Barabanki, Lakhimpur Khiri, Sitapur, Faizabad, Basti, Sant Kabir Nagar, Azamgarh, Muzaffarnagar and Siddharth Nagar).	Flood (Ghagra, Rapti, Sarayu and Sharda)	82 persons died including 6 persons as a boat carrying 6 persons in Rapti river drowned while 12 swept away in Bahraich district in Ghagra river.	<ul> <li>i) Extensive damage to the sugar cane and other crops reported.</li> <li>ii) More than 3 lakh people in about 1500 villages worst affected.</li> <li>iii) Traffic at NH-28 affected.</li> <li>iv) Damage worth crores rupees with crops, cattle and kachcha houses washed away.</li> <li>v) Many people shifted to safer places.</li> </ul>
*	Whole year	Area affected 0.450 m.ha.		i) 106 human lives lost. ii) 73 cattle lost.	i) 1.398 million population affected. ii) 3652 houses damaged. iii) Crops in 0.450 m. ha. damaged.
		UTTARAKHAND			
1.	27 Jul.	Pithoragarh	Heavy rains	6 persons died in a landslide in Pangla village.	
2.	31 Jul.	Tehri Garhwal	Heavy rains	5 persons died in a landslide in Navthana village.	

S. N.	Date/Period	Area affected	Intensity [River(s)]	Casualties	Extent of damage
3.	11 Aug.	Parts of Uttarakhand	Heavy rains	5 persons died.	
*	Whole year	Area affected 0.001 m.ha.		i) 66 human lives lost. ii) 348 cattle lost.	i) 1447 houses damaged. ii) Crops in 0.001 m. ha. damaged.

<sup>\*</sup> As per data available from Central Water Commission, total damage for the whole season for entire state has been incorporated.

S. N.	Date/Period	Area affected	Intensity	Casualties	Extent of damage

#### TABLE - XII: CYCLONIC STORM 2014

During 2014, one cyclonic storm (Nanauk) and the other very severe cyclonic storm (Nilofar) formed over the Arabian Sea. The very severe cyclonic storm (Hud Hud) formed over the Bay of Bengal. Out of these only Hud Hud caused some damage, details of the same are out lined below:-

#### **BAY CYCLONE**

### 1. 7 Oct. -14 **Formation**

Oct.

Near Lat. 11.5 <sup>o</sup>N/ Long. Very Severe 95.0 E, at about 0300 UTC Cyclonic Storm of 7<sup>th</sup> Oct., over north (Hud Hud) Andaman Sea.

#### Landfall

It crossed Andaman & Nicobar island between 0300-0400 UTC of 8<sup>th</sup> Oct. and further it crossed the north Andhra Pradesh coast over Visakhapatnam between 0630 and 0730 UTC of 12th Oct.

### **Dissipation**

Weakened into a well marked low pressure area over east Uttar Pradesh and neighbourhood at around 1200 UTC of 14th Oct.

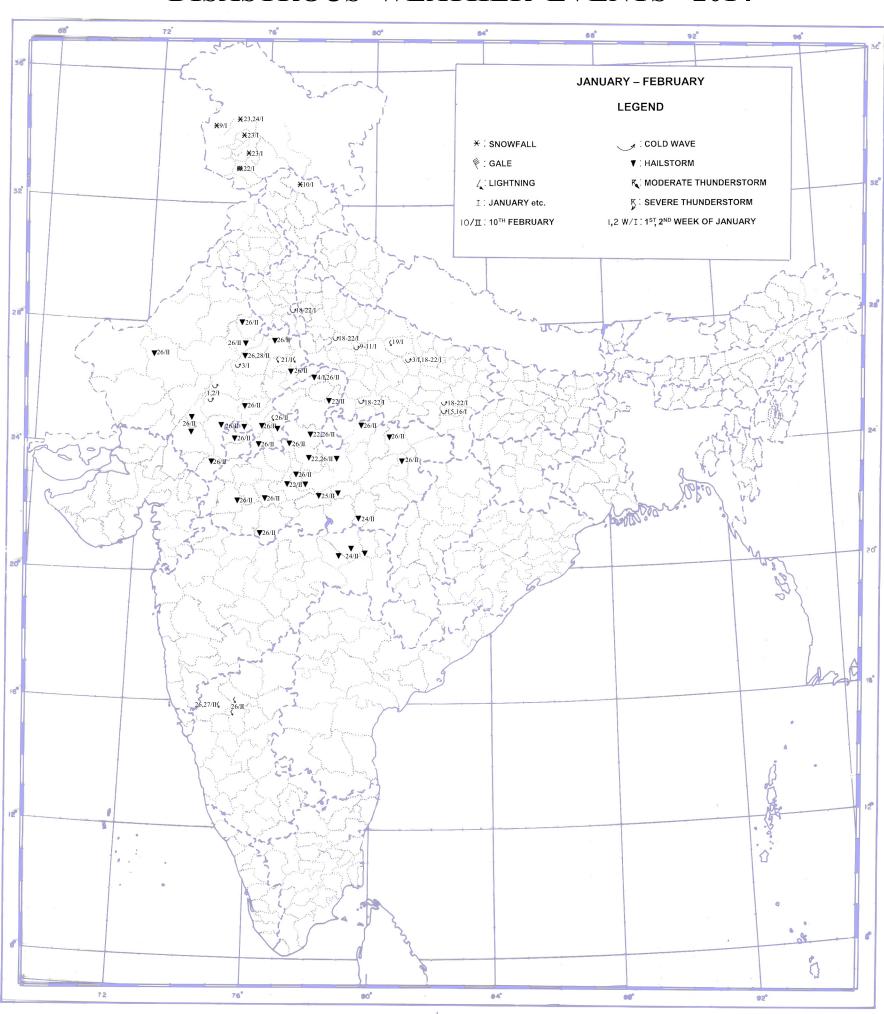
# North Andhra Pradesh:

- i) 46 persons died and 43 others injured.
- ii) Thousands of animals including poultry/duck perished.

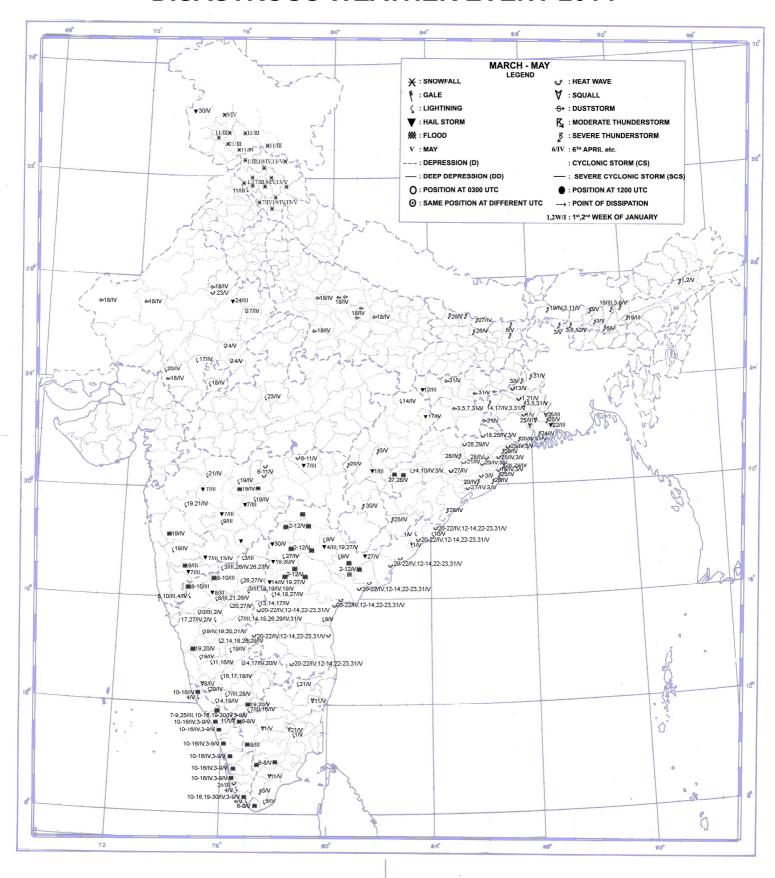
#### North Andhra Pradesh:

- i) Land submerged 2,37,854 hectares.
- ii) About 41,269 houses damaged.

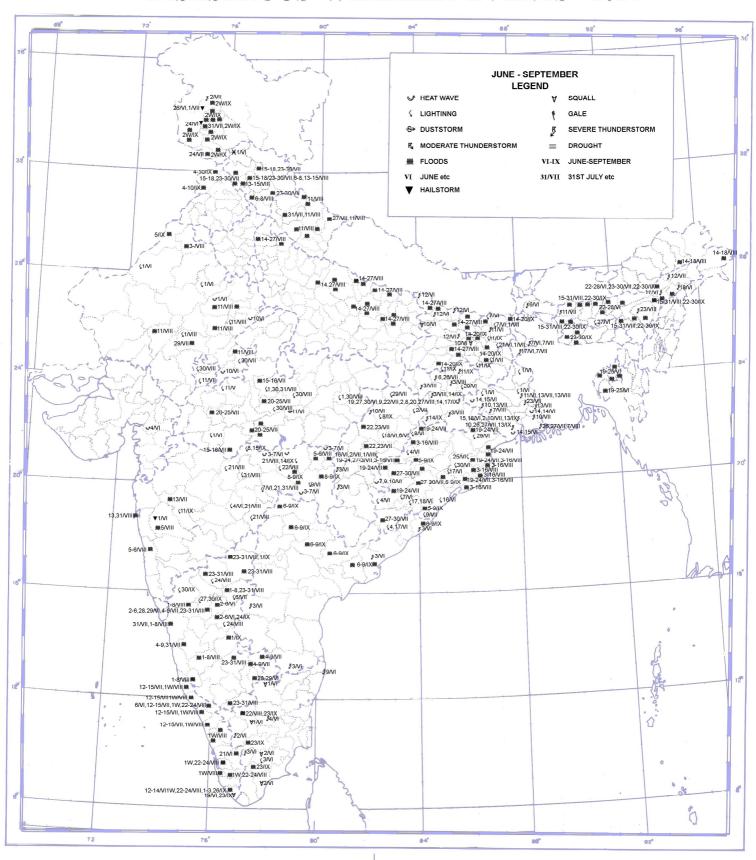
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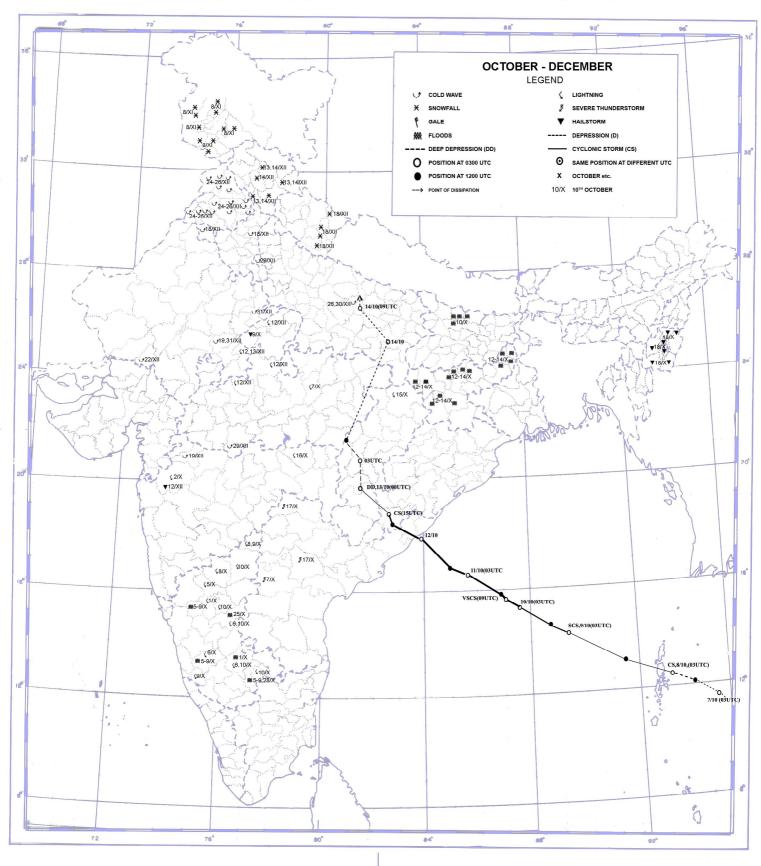
## **DISASTROUS WEATHER EVENT 2014**



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