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Government of India  
Ministry of Home Affairs  
National Disaster Management  
CONTROL ROOM  
<http://ndmindia.nic.in>

**Flood Situation Report – 2002**

(Based on the reports received from concerned Departments/State Govts.)

(South West Monsoon – 2002)

**Flood situation:**

- Assam and Bihar still reeling under flood.
- Cloudburst/ Landslides in Uttaranchal.
- In Arunachal Pradesh, Gujarat, Himachal Pradesh, Kerala, Madhya Pradesh, Maharashtra, UP and West Bengal floods have receded.

**India Meteorological Department:**

**June 1 to August 07, 2002:**

- ◆ 1 sub-divisions received excess rainfall out of 36 meteorological, 9 sub-divisions normal, 21 sub-divisions deficient and 5 scanty rainfall. With regard to district-wise distribution, 5% meteorological districts received excess, 22% normal, 43 % deficient and 30 % scanty rainfall.

**Central Water Commission**

(As on 12-08- 2002):

**Unprecedented flood situation: NIL**

**High Flood situation:**

- In Bihar, River **Bagmati** at Benibad is flowing above danger level with raising trend.

**Moderate Flood situation:**

- 7 other stage flood forecasting station (4 in Assam, 3 in Bihar) were reported in moderate flood at 0800 hrs. on 12-08-2002.

## **National Remote Sensing Agency**

(As on 12-08- 2002):

- ◆ The National Remote Sensing Agency(NRSA) sends regular flood maps along with data obtained through Radar satellite/ microwave satellite for assessing the intensity of flood situation in various States.
- ◆ Near Real Time Flood Mapping using Satellite remote Sensing RADARST data of 26<sup>th</sup> & 28<sup>th</sup> July 2002 was procured and analysed. Flood inundation map using and data transmitted to the **Assam** Remote Space Application Centre(ARSAC) , Guwahti and NESAC, Shillong for dissemination to user Departments. As per the NRSA, inundation impact was estimated from the satellite data of 31<sup>st</sup> July, 2002, the inundation in Dibrugarh, Dhemaji, Sibsagar, Jorhat, Lakhimpur, Golaghat, Nowgong, Marigaon, Darrang, Sonitpur, Cachar, Karimganj and Hailakandi Districts was **1,66,493** hectares. 51298 hectares crop area submerged and 974 villages marooned in 5 Districts.
- ◆ Flood inundation map using 8<sup>th</sup> August 2002 and data transmitted to the **Bihar** Remote Sensing Application Centre(BRSAC), for dissemination to user Departments. As per the NRSA, inundation impact was estimated from the satellite data of 8<sup>th</sup> August, 2002, the inundation in Darbhanga, Madhubani, Muzaffarpur, Sitamarhi, Supaul, Samastipur, Begusarai, Madhepura, Katihar, Purnia, Khagariya, Bhagalpur and Saharsa Districts was **2,71,143** hectares.

## **Reports from States/UTs.: (Continuing floods)**

### **ASSAM**

(As on 12-08- 2002):

According to the report of the State Government, Kamrup, Nalbari, Barpeta, Darrang, Dhemaji, Dhubri, Golpara, Jorhat, Morigaon, Sonitpur, Tinsukia, Dibrugarh, Sivgar, Golaghat, Nagaon, Karimganj, Kokrajhar, Kishanganj, Lakhimpur, Bongaigaon and Cachar Districts were affected by flood. Overall flood situation in all the affected districts is gradually improving. Road communication from Dhemaji to other parts of the country and in several places of Goalpara/Morigaon and Nagaon still remain disrupted. The relief work and distribution of gratuitous relief continuing to the affected people wherever necessary. The State Government is taking necessary relief measures including operation of Number of country/motor boats (about 358) deployed for rescue & relief work, distribution of essential commodities like rice, dal, salt and chira in the affected areas. Gratuitous relief of Rs. 5.20 corers sanctioned so far. Army pressed into service to assist Civil Authorities in rescue & relief operation. Health centers are functioning and 374 Relief camps opened for 88542 inmates. NH 52 beyond lakhimpur is affected by flood. Rail and Road traffic disrupted in some stretches of the State. In Bilasipara sub-division, NH 31 has been opened for traffic.

## **BIHAR**

**(As on 11-08- 2002):**

As per information received from the State Government, 22 Districts viz. Sitamarhi, Nalanda, Muzaffarpur, Darbhanga, Patna, Katihar, E. Champaran, W. Champaran, Sheohar, Gopalganj, Smastipur, Madhubani, Saharsa Supaul, Shekhpura, Siwan, Araria, Kishanganj, Purnea, Begusarai, Madhepura, Saran and Khagaria were affected by flood. 2092 Panchayat affected so far. NH 77 was affected by flood at Janar, Katojha and Vanaspati. The State Government has deployed 6293 country boats and distributed of essential commodities like chana, wheat, readymade food, matchboxes, candles, cash dole of Rs. 321.69 and Rs. 51.65 lakh cash and 22460 liters Kerosene Oil distributed among affected persons. 450 Health centers, 258 Veterinary centers and 500 Relief camps functioning. 184683 meters polythene sheets distributed. 27789 packets have been distributed/ air dropped by three army helicopters, 148969 packets by military boats & 1918.15 qtl other materials in Madhabani, Sheahar, Darbhanga since 24.7.2002. Sitamarhi, Muzaffarpur, Darbhanga, Gopalganj and Madhubani Districts are severely affected by flood.

3 Army column are engaged in rescue & relief work in Madhubani, Samastipur and Gopalganj.

## **UTTRANCHAL**

**(As on 12-08- 2002):**

As per information received from the State Government, due to Cloudburst 28 humans lives lost reported at Tehsil Ghansyali in District Tehri and due to landslide 4 lives lost in District Uttarkashi at Tahsil Bhatwari, near village Siror. Rescue and relief operation being taken and medical facilities provided to the wounded persons. 27 persons were reported injured.

Para-Military and Army column pressed into service to assist Civil Authorities in rescue & relief operation

### **From Central Departments:**

### **Central efforts**

- Ministry of Home Affairs is coordinating the central response as a nodal Ministry. Union Minister of Defence and Minister of State(Home) had made an aerial survey of flood affected areas of the Bihar on 2<sup>nd</sup> August 2002 to asses the situation.
- The Ministry of Defence has intimated that all aircrafts returned to base. 4 Columns continue to be deployed in Bihar and 3 Columns continue to be deployed in Assam. The following rescue & relief work was also carried out as on 8<sup>th</sup> August 2002:-

	Assam *	Bihar
Persons evacuated	6658	1759
Med. Aid provided to persons	2530	2546
Rations(Tons)	13.9	37.7
Food packets distributed	1000	15701

\* No fresh inputs

- The Ministry of Health has requested by MHA to take necessary action to prevent outbreak of epidemic. 2 Medical teams has since been deputed by M/o Health for Assam & Bihar States to advise State authorities on public health measures, preventive measures including supply of medicines to stop danger of any epidemic.
- M/o Railways has been requested to take necessary action for repair of the damage and flow of traffic in the States of Assam, Bihar and West Bengal. M/o Railway has been intimated that as on date normal traffic has been restored in all the Division affected by flood till recently.
- Ministry of Road Transport & Highways, and Boarder Road Organisation have also been requested to take necessary action for repair of the damage and flow of traffic in the States of Assam, Bihar and West Bengal.
- A Central Team form M/o Water Resources visited the flood-affected areas of Assam on 1 to 2<sup>nd</sup> August 2002. Team has recommended a number of palliative measures to carried out on emergent basis to scale down the further damages and suggested immediate engineering steps to supplement the relief measures, already initiated by the State Government.

□ **State-wise information on damage is at ANNEXURE.**

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Secy.(A&C)/SS(BS)/JS(Drought)

All Senior Officers of MHA / Line Departments of Central Govt. / Nodal Officers of M/o Defence, Road Transport & Highways, Railways, Health/Concerned State Governments/ Army HQ Control Room/ Air HQ Control Room.

NCDM/ADPC/ADRC/UNDP/FAO/UN Rep. Geneva/New York /OCHA/Relief Web/IRCS.

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## Damage due to Cyclone, Heavy Rains & Flood during – South- West Monsoon, 2002

(Provisional, As on 12-08-2002)

S.No.	States/UT's	Calamity	Total Districts (No.)		Affected				Damage					Lives lost		Remarks
			Districts (No.)	Talukas/Blocks/Mpls.	Villages	Total Area (in lakh Ha.)	Population (in lakh)	Crops area (in lakh Ha.)	Estimated value of crops (Rs. in crores)	Houses (No.)	Estimated value of houses (Rs. in crores)	Estimated value of Public properties (Rs. in Crores)	Human (No.)	Cattles (No.)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Arunachal Pradesh	FF/L	15	3	1	10	NR	0.1580	Neg.	Neg.	1	NR	14.87	5	1	
2	Assam	HR/L	23	21	NR	6501	8.04	55.88	3.24	NR	19827	NR	NR	39	482	
3	Bihar	HR	38	23	195	7510	17.87	147.08	10.52	173.05	1,51,622	62.21	54.45	268	815	
4	Gujarat	HR	25	10	21	129	NR	6.50	NR	NR	389	NR	NR	73	555	3 missing
5	Himachal Pradesh	HR/L	12	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
6	Kerala	HR/F/L	14	7	NR	680	NR	0.21	NR	1.42	2004	0.97	0.01	20	NR	7 missing
7	Madhya Pradesh	HR	45	1	NR	2	NR	NR	NR	NR	NR	NR	NR	4	NR	
8	Maharashtra	HR/L	35	1	NR	311	NR	NR	NR	NR	6466	NR	149.23	103	593	
9	Uttar Pradesh	HR	70	2	2	42	0.14	0.75	0.11	0.10	634	NR	NR	0	1	
10	Uttaranchal	HR/L	13	2	2	6	NR	NR	NR	NR	NR	NR	NR	32		
11	West Bengal	HR/L		4	6	115	NR	0.26	0.00439	0.21	6725	0.44	0.29	5	20	
	<b>TOTAL :-</b>			<b>75</b>		<b>15306</b>					<b>187668</b>			<b>549</b>	<b>2467</b>	

Note: F - Flood, FF- Flash Flood, L - Landslide, HR - Heavy Rains, C – Cyclone, NR - Not Reported, Neg.- Negligible

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