

# Rajasthan Heavy Rains – 2022

## 1.0 Background

Heavy incessant rains were reported in various parts of Rajasthan in the fourth week of August, 2022. River Chambal at Kota & Dhaulpur districts, River Kalisindh at Kota and River Parwati at Kota were reported to be flowing in severe flood situation in Rajasthan State. (Source: News Media, CWC).

## 2.0 Satellite Data

Flood Disaster Team is keeping a constant watch on the flood situation and checked the satellite data coverage over the affected areas. Anticipating floods, Resourcesat-2 AWiFS data of Aug 24, 2022 was acquired and analyzed. (Refer Table-1).

**Table-1 Satellite Data acquired over Flood Affected Area**

S No	Date	Satellite/ Sensor	Status
1	24-08-2022	Resourcesat-2 AWiFS	Analyzed and 1 Inundation map is being sent.

## 3.0 Data Analysis

Satellite data is rectified and inundation layer is extracted. Further, inundation map for part of Rajasthan is prepared. The inundation layer is integrated with district boundaries layer, for extracting district-wise inundation statistics which are shown in the Table-2.

## 4.0 Observations

Based on the analysis of satellite data, the following points were observed.

- Satellite data covers part of Rajasthan State
- Major Inundation is observed in Dhaulpur and Baran districts.
- Observed inundation may include rain water accumulation / flood water in low lying areas.

**Table-2: District-wise inundated area statistics**

S. No.	DISTRICT	Inundated Area (ha)
1	DHAULPUR*	4754
2	BARAN*	1520
3	KARAULI*	950
4	BHARATPUR*	136
	<b>TOTAL</b>	<b>7361</b>

-Districts with inundation less than 100 ha are not included in the statistics.  
 \* Partially covered in satellite data.

**Distribution List:**

1	MHA	1. Joint Secretary, NDM, Ministry of Home Affairs, North Block, New Delhi. 2. NDM control Room, Ministry of Home Affairs, North Block, New Delhi 3. Director, DM-III, NDM, Ministry of Home Affairs, North Block, New Delhi.
2	NDMA	1. Vice Chairman, National Disaster Management Authority (NDMA), New Delhi 2. Control Room, National Disaster Management Authority (NDMA), New Delhi
3	NODAL MINISTRIES	1. Chairman, Central Water Commission, Sewa Bhavan, R K PURAM, New Delhi 2. ADGM (H & A), India Meteorological Department, Mausam Bhavan, New Delhi
4	STATE	1. Joint Secretary, G-16, Heera Bagh, Near Narayan Singh Circle, Jaipur, Disaster Management, Relief & Civil Defence Department, Govt of Rajasthan- 302004.
5	ISRO/DOS	1. Director, EDPO, ISRO Head Quarters, Antariksha Bhavan, New BEL Road, Bangalore-560094. (e-mail) 2. Programme Director, EDPO, ISRO Head Quarters, Antariksha Bhavan, New BEL Road, Bangalore-560094. (e-mail) 3. Associate Director, EDPO, ISRO Head Quarters, Antariksha Bhavan, New BEL Road, Bangalore-560094. (e-mail)
6	NRSC	1. Group Head, DMSG 2. Deputy Director (RSA) & Project Director, RRES 3. Associate Director, NRSC 4. Director, NRSC

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