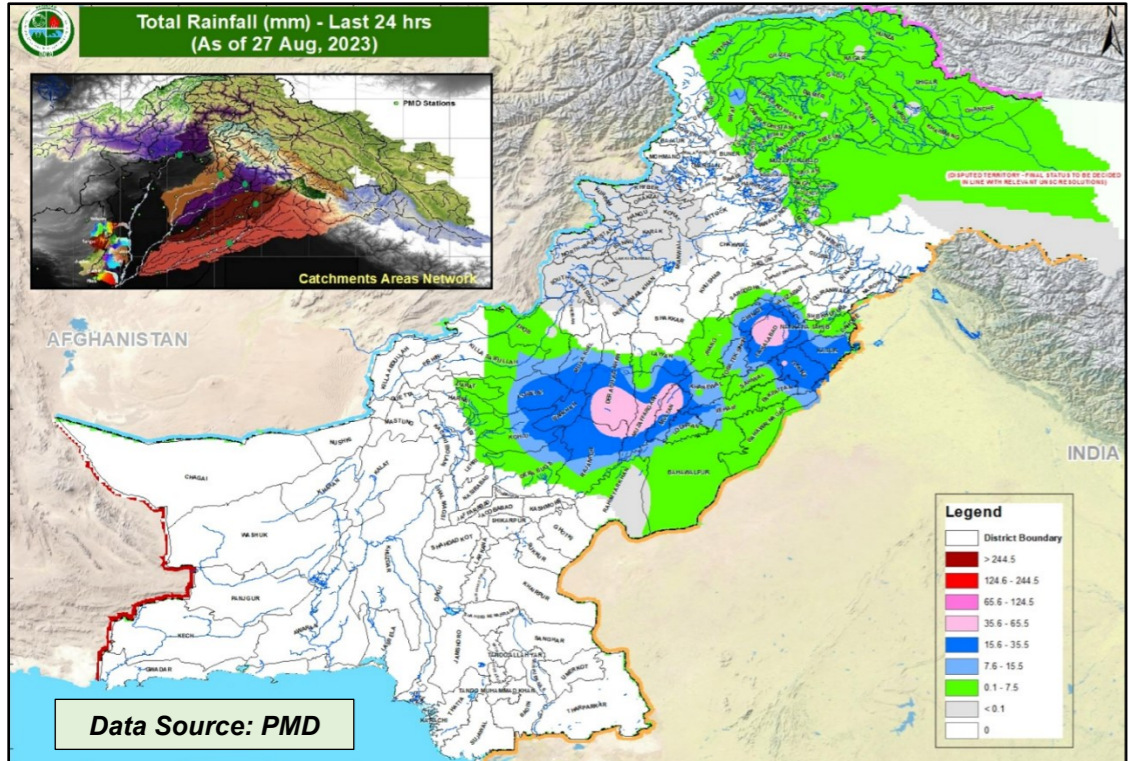


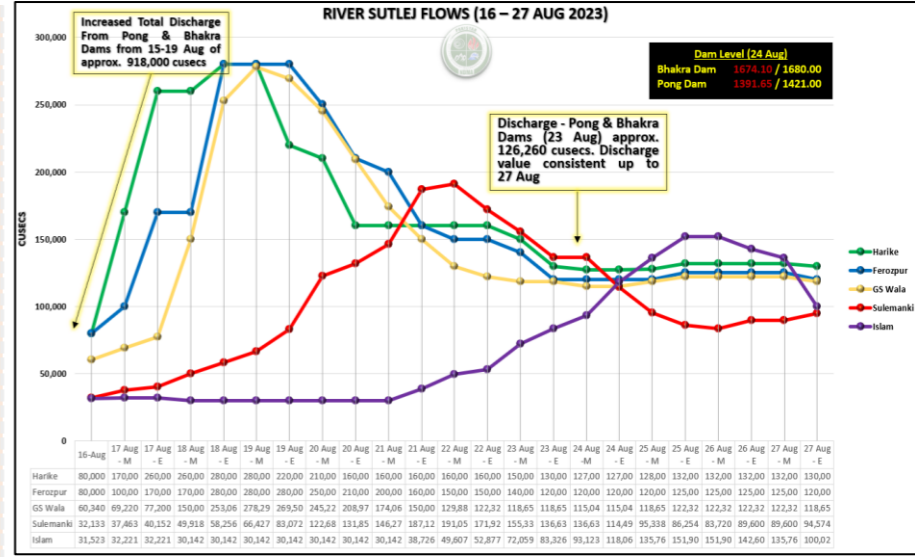


NDMA - MONSOON SEASON 2023 UPDATE NO 98 (1930 hrs 27 Aug 2023)



Flood River Sutlej - Evacuation Efforts

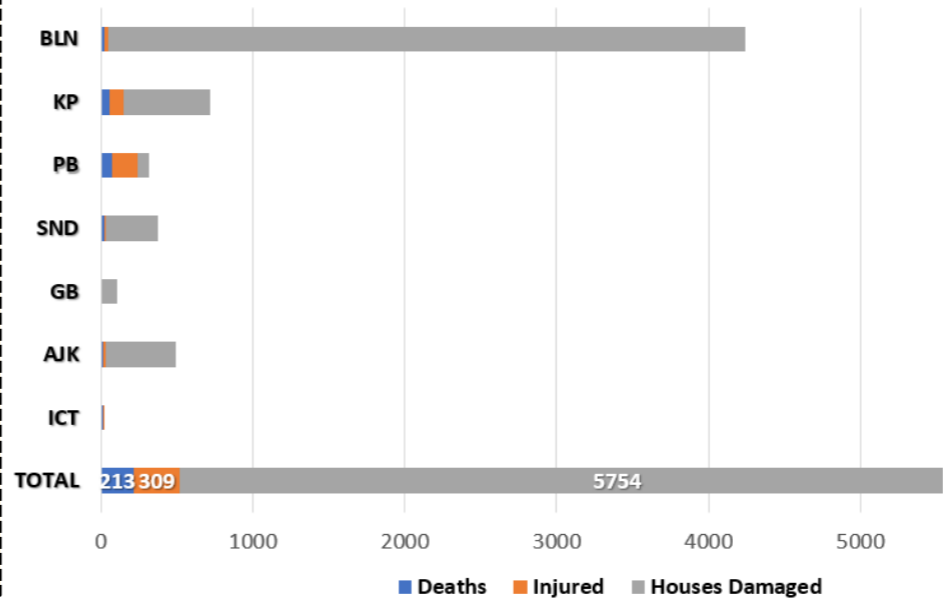
- With **issuance of timely early warning / advisory** and **pro-active engagement** of all stakeholders by **NDMA**, **coordinated evacuation** of vulnerable / at-risk population from low-lying areas adjacent River Sutlej has been ensured in Districts Kasur, Okara, Bahawalnagar, Pakpattan, Vehari, Bahawalpur, Lodhran by Rescue 1122
- Pers Evac / Tpt - **378,426**
- Livestock Evac - **20,319**
- **Resources Deployed**
- Boats - **372**
- Rescue Personnel - **1,408**



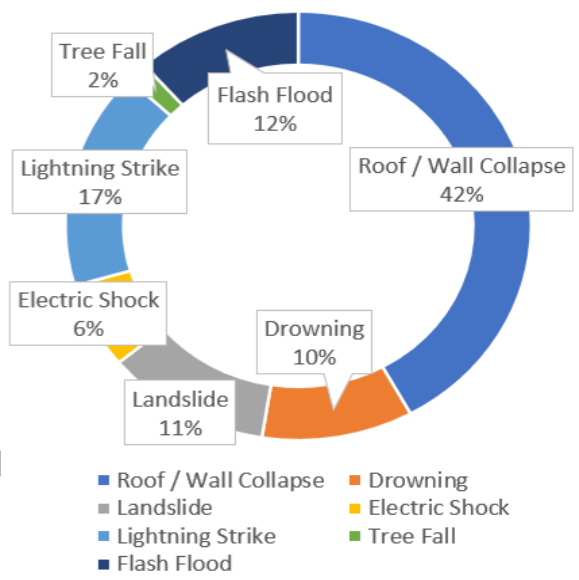
- **River Sutlej at GS Wala, Sulemanki and Islam is at Medium Flood**
- **Flows at all three points are on a decreasing trend**
- **Approx 126,260 cusecs daily discharge reported from Bhakra & Pong Dams since 23 August; effect of same will be observed at GS Wala by 27 / 28 August 2023**

- ### TOP RAINFALL RECORDED LAST 24 HOURS (MM)
- **Balochistan.** Barkhan 19.
 - **Khyber Pakhtunkhwa.** Kalam 9, Patan 4.
 - **Punjab.** DG Khan 64, Faisalabad 52, Multan 45, Okara 36, Kasur 28, TT Singh 14, Khanewal 6, Bahawalpur 1.
 - **Sindh.** Nil.
 - **Gilgit-Baltistan.** Gupis 4, Bunji 3, Bagrote 2, Chilas 1, Astore 1.
 - **State of AJ&K.** Muzaffarabad 1, Rawalakot 1.
 - **ICT.** Nil.
- Note:** Due to technical fault at PMD, Automated Weather Station (AWS) Rainfall Data is unavailable for today.

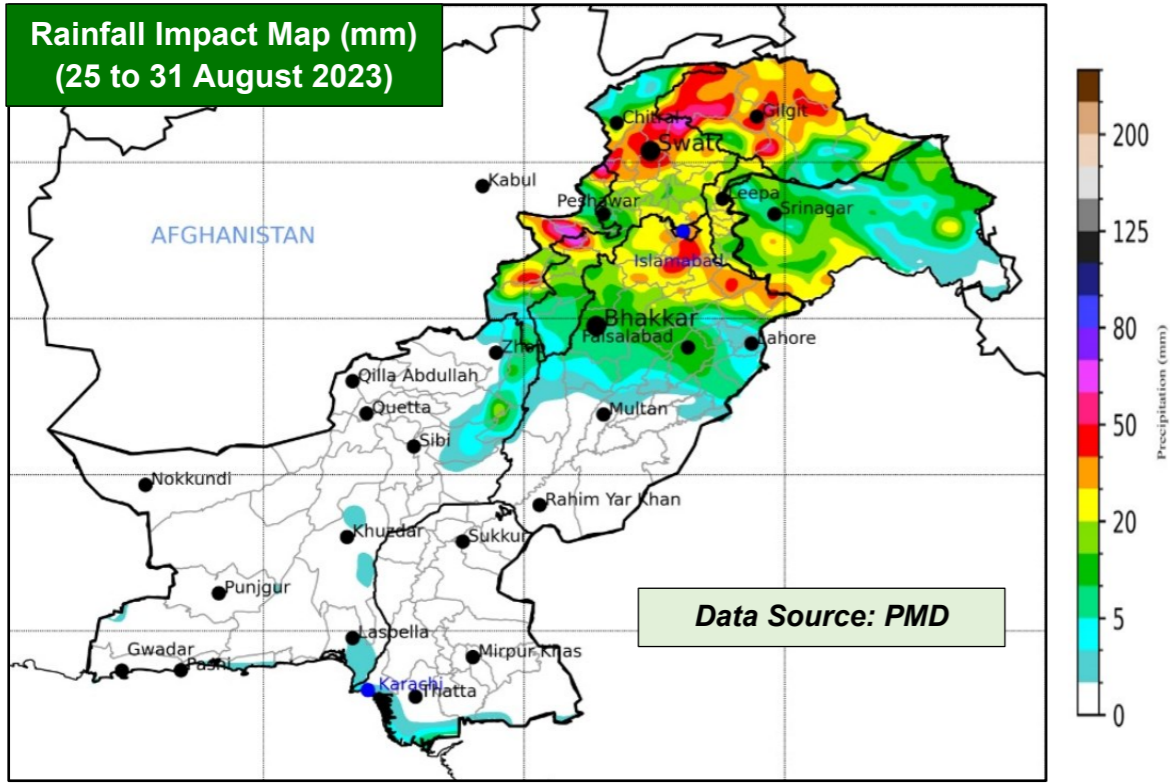
Cumulative Losses & Damages (25 June to Date)



Cumulative Deaths Categorization



Note: Losses / Damages data is provided by PDMAs / GBDMA / SDMA / Govt Depts and are preliminary.



Forecasted Impact

- **River Sutlej** at GS Wala, Sulemanki and Islam is at **Medium Flood**.
- **Flows** at all three points are on a **decreasing trend**.
- Due to **moderate to heavy rainfall** in upper **catchment areas of River Sutlej**, approx **126,260 cusecs daily discharge** reported from **Bhakra & Pong Dams** since 23 August, **effect** of same will be observed at **GS Wala by 27 / 28 August 2023**.
- **At-risk Districts include Kasur, Okara, Bahawalnagar, Pakpattan, Vehari, Bahawalpur, & Lodhran.**
- **On 27 August, rain-wind / thundershowers with a few moderate to heavy falls and occasional gaps** reported: -
 - **Balochistan** (Musakhel, Barkhan, Zhob, Kalat and Khuzdar).
 - **Khyber Pakhtunkhwa** (Galiyat, Chitral, Dir, Swat, Shangla, Buner, Mansehra, Kohistan, Abbottabad, Haripur, Kohat, Peshawar, Mardan, Swabi, Nowshera, Kurram, Lakki Marwat, Dera Ismail Khan, Bannu, Karak, Waziristan).
 - **Punjab** (Murree, Rawalpindi, Attock, Chakwal, Jhelum, Mandi Bahauddin, Hafizabad, Gujranwala, Gujrat, Sialkot, Narowal, Lahore, Kasur and Sheikhpura, Mianwali, Sargodha, Khushab, Faisalabad, Toba Tek Singh, Jhang and Bhakkar).
 - **Gilgit Baltistan** (Diامر, Astore, Ghizer, Skardu, Hunza, Gilgit, Ghanche and Shigar).
 - **State of AJ&K** (Neelum Valley, Muzaffarabad, Poonch, Hattian, Bagh, Haveli, Sudhnoti, Kotli, Bhimber and Mirpur).

Guidance Issued

- PDMA to ensure **early warning & prompt response** in **vulnerable areas** in light of **wind-thundershowers with a few moderate to heavy falls** (in areas indicated above in blue).
- PDMA to undertake **regular public awareness on all media channels / social media** to maximise general public's **knowledge on risks associated with monsoon season**; heavy rains, urban flooding, flash flooding, landslides, etc.
- **Tarbela & Mangla Dam Authorities** are **advised to manage reservoirs levels**, and **use of spillways accordingly in coordination with stakeholders downstream**
- **City / District Administrations** are to **ensure contingency traffic plans** for areas vulnerable to flooding in urban centres, (as indicated above) catering for **prompt de-watering operations in flooded areas**.
- **PDMA Punjab to ensure timely early warning and evacuation of all at-risk populace living downstream of GS Wala, Sulemanki and Islam on River Sutlej.**
- **PDMA Punjab to ensure provision of medical care and relief items to displaced populace in camps**
- PDMA Khyber Pakhtunkhwa, PDMA Punjab & SDMA to ensure **early warning, prompt evacuation and response** in **vulnerable low-lying areas** downstream Tarbela & Mangla Dams in-case of any emergent water discharges or flooding situation in light of present reservoir levels.
- **GBDMA** to ensure all necessary measures are undertaken to mitigate / prepare against **GLOF incidents**.
- **NHA / FWO / Local C&W Depts** to **ensure pre-placement of machinery** and **timely restoration of damaged road linkages**.
- **Rescue Services, Armed Forces** and leading **NGOs / CSOs** to **ensure availability of personnel / equipment** in the indicated areas & **be on stand-by for rapid response**.

| RESERVOIR LEVELS (0600 hrs) | | |
|--------------------------------|----------------|----------------|
| Details | Tarbela | Mangla |
| MCL (Feet) | 1,550.0 | 1,242.0 |
| Dead Level (Feet) | 1,402.0 | 1,050.0 |
| Water Level (Feet) | 1549.70 | 1241.80 |
| Change Last 24hrs | +0.45 | +0.01 |
| Live Storage (MAF) | Max | 5.809 |
| | Present | 5.792 |
| Change Last 24hrs | +0.026 | +0.008 |
| % Dam Filled | 99.70 | 99.78 |
| Change Last 24hrs | +0.45 | +0.11 |
| Data Source: WAPDA (TDP & MDP) | | |

| FFD Discharge Report | | | | |
|------------------------------------|-----------|---------|---------|--------|
| Recorded at: 27-Aug-2023 18:00 PST | | | | |
| River | Site | Inflow | Outflow | |
| Indus | Tarbela | 192,000 | 256,000 | LOW |
| | Kalabagh | 204,019 | 196,019 | NORMAL |
| | Chashma | 252,742 | 235,042 | NORMAL |
| | Taunsa | 276,181 | 253,681 | LOW |
| | Guddu | 248,566 | 217,029 | LOW |
| Kabul | Sukkur | 205,110 | 151,500 | NORMAL |
| | Kotri | 153,711 | 113,086 | NORMAL |
| | Nowshera | 30,400 | 30,400 | NORMAL |
| Jhelum | Mangla | 19,000 | 14,715 | NORMAL |
| | Rasul | 8,391 | 5,341 | NORMAL |
| Chenab | Marala | 40,188 | 16,865 | NORMAL |
| | Khanki | 37,622 | 29,297 | NORMAL |
| | Q.Abad | 27,690 | 17,690 | NORMAL |
| | Trimmu | 80,534 | 71,934 | NORMAL |
| | Panjnad | 80,666 | 64,166 | NORMAL |
| Ravi | Jassar | 7,101 | 7,101 | NORMAL |
| | Shahdara | 29,969 | 29,969 | NORMAL |
| | Balloki | 36,975 | 14,125 | NORMAL |
| Sutlej | Sidhnai | 31,934 | 14,134 | NORMAL |
| | GS Wala | 118,652 | 118,652 | MEDIUM |
| | Sulemanki | 108,044 | 94,574 | MEDIUM |
| | Islam | 100,028 | 100,028 | MEDIUM |