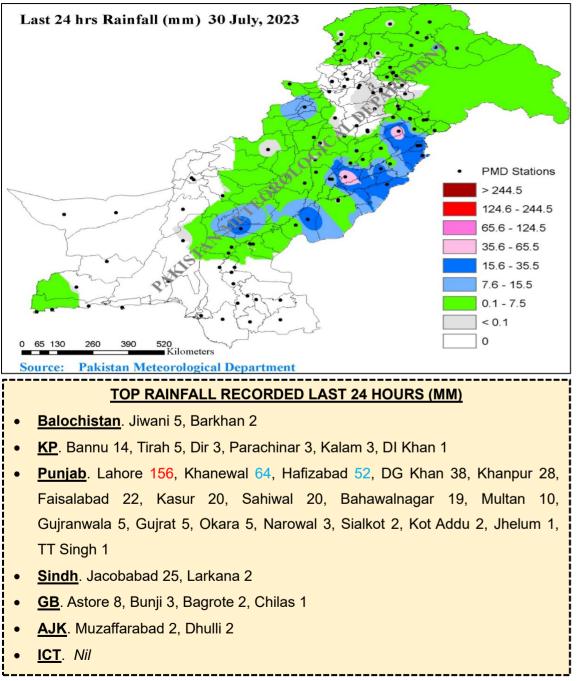
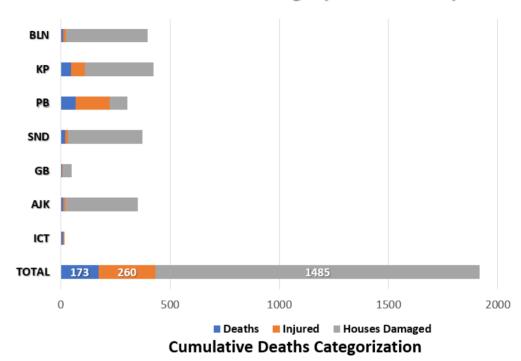
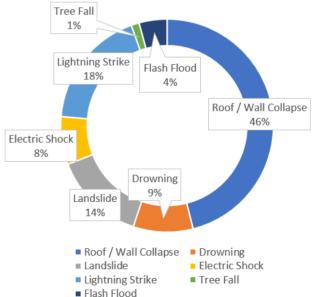


NDMA – MONSOON SEASON 2023 UPDATE NO. 45 (30 JULY – 1130)

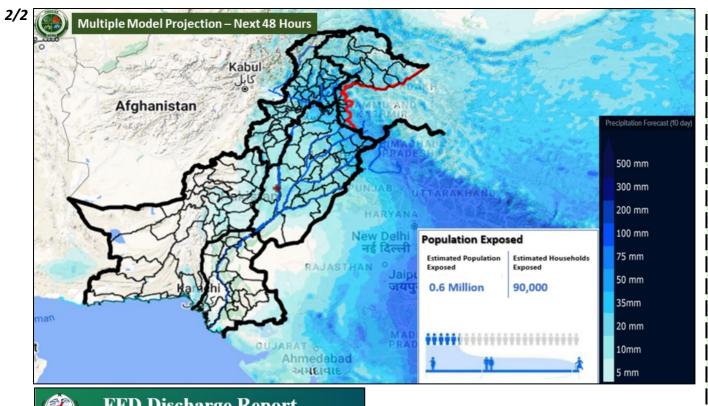






Cumulative Losses & Damages (25 June to Date)

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



River	Site	Inflow		Outflow	
Indus	Tarbela	284,000	5	256,800	LOW
	Kalabagh	322,729	~	314,729	LOW
	Chashma	355,688	~	351,688	LOW
	Taunsa	368,299	~	368,299	LOW
	Guddu	467,457	~	450,217	MEDIU
	Sukkur	391,455	~	360,055	MEDIU
	Kotri	143,549	~	108,984	NORM/
Kabul	Nowshera	73,000	~	73,000	LOW
Jhelum	Mangla	75,000	~	10,000	NORM
	Rasul	7,891	2	5,341	NORM
Chenab	Marala	96,404	~/	79,404	NORM
	Khanki	84,600	~	77,685	NORM
	Q.Abad	82,725	· m	72,725	NORM
	Trimmu	86,618	240	78,168	NORM
	Panjnad	104,453	5	93,603	NORM
Ravi	Jassar	41,760	\rightarrow	41,760	NORM/
	Shahdara	34,308	5	34,308	NORM/
	Balloki	74,070	~	58,870	LOW
	Sidhnai	44,805		33,955	LOW
	GS Wala	58,360	\rightarrow	58,360	NORM/

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)		1,534.66	1,227.00			
Change Last 24hrs		+1.02 ft	+1.8 ft			
Live	Мах	5.809	7.356			
Storage (MAF)	Present	4.938	6.196			
Change Last 24hrs		+0.054	+0.132			
% Dam Filled		85.00	84.23			
Change I	ast 24hrs	+0.93%	+1.8%			
		II				

FORECASTED IMPACT NEXT 48-72 HOURS

- Flash Flooding of Moderate to Heavy intensity is expected in Tributaries of River Kabul and Hill Torrents of D.G Khan Division from 27 30 July.
- Due to convergence of flows at Taunsa & Punjnad Guddu Barrage may attain High Flood Level on 30 July 2023 and Sukkur Barrage may attain High Flood Level on 31 July.
- Rain-Wind-Thundershowers with scattered heavy falls of moderate intensity
 - Khyber Pakhtunkhwa (Galliyat, Chitral, Dir, Swat, Shangla, Buner, Mansehra, Kohistan, Abbottabad, Haripur, Peshawar, Mardan, Swabi, Nowshera, Kurram, Lakki Marwat, Kohat, Dera Ismail Khan, Bannu, Karak and Waziristan).
 - Punjab (Murree, Rawalpindi, Attock, Chakwal, Jhelum, Mandi Bahauddin, Sialkot, Narowal, Lahore, Sheikhupura, Hafizabad, Gujranwala, Gujrat, Kasur, Mianwali, Sargodha, Khushab, Faisalabad, Toba Tek Singh, Jhang, Bhakkar, Sahiwal, Bahawalnagar and Okara).
 - o Gilgit Baltistan (Diamer, Astore, Ghizer, Skardu, Hunza, Gilgit, Ghanche and Shigar).
 - State of AJ&K (Neelum, Muzaffarabad, Poonch, Hattian, Bagh, Haveli, Sudhnoti, Kotli, Bhimber and Mirpur).
 - Islamabad Capital Territory.
- Rain-Wind-Thundershowers with few heavy falls of moderate intensity
 - Balochistan (Kalat, Khuzdar, Lasbela, Awaran, Kech, Gwadar, Panjgur, Mastung, Sibbi, Naseerabad, Zhob, Sherani, Barkhan, Musakhel, Kohlu, Jhal Magsi and Loralai).
 - o Punjab (DG Khan, Rajanpur, Multan, Khanewal, Layyah, Kot Addu, Bahawalpur and RY Khan).
- Urban flooding in municipal areas (as indicated above). Flash flooding and landsliding in hilly / mountainous regions of Balochistan, KP, Punjab, GB & AJK (as indicated above). Hill Torrents of DG Khan, Rajanpur, Barkhan and Dera Bugti to remain active with Moderate intensity.
- Flows in rivers and streams of Gilgit Baltistan likely to increase and high probability / risk of GLOF incident in vulnerable mountain valleys.

GUIDANCE ISSUED

- 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.
- PDMAs 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.
- PDMAs to ensure early warning & prompt response in vulnerable areas in light of wind-thundershowers
 and possibility of heavy falls (in areas indicated above), increased river flood flows and flash flooding.
- PDMA Balochistan & Punjab to ensure early warning, prompt evacuation and response in vulnerable low-lying areas adjacent to nullahs / hill torrents (in areas indicted above).
- PDMA Sindh to ensure all necessary measures undertaken in light of High Flood Levels at Guddu & Sukkur.
- 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.