

Government of Pakistan Ministry of Water Resources Office of Chief Engineering Advisor/ Chairman, Federal Flood Commission

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FFC's DAILY WEATHER & FLOOD SITUATION REPORT FRIDAY AUGUST 19, 2022

Owing to heavy rainfall in the Hill Torrents of D.G. Khan Division (Punjab), River Indus at Taunsa Barrage generated "High Flood" (discharges were ranging from 504,999 to 580,000 cusecs between 0900 to 2200 hours yesterday). Flood flows in River Indus at Taunsa have now receded and at present it is flowing in "Medium Flood" (Ref: Annexure-I). In addition, River Indus is in "Low Flood" in Tarbela-Kalabagh, Kalabagh-Chashma and Guddu-Sukkur reaches. River Kabul (a tributary of River Indus downstream Tarbela) is also in "Low Flood" at Nowshera (downstream Warsak).

- 2. Rivers Jhelum, Chenab, Ravi & Sutlej are flowing in Normal Flow Conditions. **Annexure-I**, depicts main rivers inflows/outflows at important control structures, reservoirs storage position besides Skardu temperature at 0600 hours today. **Tarbela reservoir** is just **0.80 feet** below its Maximum Conservation Level (MCL: 1550.00 feet). Present Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **8.710 MAF** (i.e. **64.71** % of **13.461 MAF**).
- 3. Yesterday's **Depression** over **Southeastern Sindh** (**Pakistan**) is remained stationery and has converted into a **Low**. Also a fresh **Well Marked Low Pressure Area** has developed over Northwestern Bay of Bengal (India). Trough of Westerly Wave earlier over Northern parts of Afghanistan today lies over Northern parts of Pakistan whereas Seasonal Low continues to prevail over Northwestern Balochistan. **Moderate Moist currents** from Arabian Sea are penetrating into **Southern Punjab**, **Sindh** and **Balochistan** upto 10000 feet. (Source: FFD, Lahore).

4. Next 24 Hours Forecast:

Scattered to Widespread Thunderstorm/Rain with "Heavy Falls" at scattered places and "Very Heavy Falls" at isolated places are expected over Central & Upper Sindh and Eastern Balochistan. Scattered thunderstorm/rain of Light to Moderate Intensity with "Isolated Heavy Falls" may also occur over Punjab (Bahawalpur, D.G. Khan, Multan & Sargodha Divisions) and Khyber Pakhtunkhwa (D.I. Khan Division) besides Isolated Thunderstorm/Rain of Moderate Intensity over rest of the country. Exceptional Heavy Rainfall has been experienced over Sindh (Padidan=355 mm) during the past 24 hours. Details of rainfall events during past 24 hours may be seen at Annexure-II (Source: FFD, Lahore).

5. Weather Outlook & Flood Forecast, 20th-26th August 2022

The current Wet Spell is likely to decrease over lower half of Pakistan during further 24 hours. There is a likelihood of **Heavy to Very Heavy Rainfall** over the upper catchments of **Rivers Kabul** and **Indus** including their tributaries and over the catchments of hill torrents of **D.G. Khan Division** (**Punjab**) from 20th to 22nd August 2022. Also a fresh Strong Monsoon Activity is likely to start over Southern Punjab, Sindh, Khyber Pakhtunkhwa (**D.I Khan Division**) and **Balochistan** from 23rd August 2022.

As a consequence:

- Moderate Flash Flooding is expected in the Rivers/Nullahs of Eastern Balochistan during the next 48 hours.
- Low to Medium Level Flooding is expected in Hill Torrents of D.G. Khan Division (Punjab) during the next 48 hours.
- River Indus may attain High Flood Level at Guddu and Sukkur on 21st August 2022 and 22nd August 2022 respectively.
- Medium to High Level Flooding is expected in River Kabul at Nowshera including tributaries of Rivers Kabul & Indus from 20th to 23rd August 2022.

6. **Specific Directions For Dam/Reservoir/Barrages Management Organizations:**

Mangers of major dams/ reservoirs/ barrages/ headworks including field formations of respective Irrigation Departments (especially of Punjab and Sindh) are strictly cautioned to remain on "HIGH ALERT" to effectively manage/ route forecasted river discharges without compromising on structural safety, through well coordinated and round-the-clock patrolling of river embankments. Flood fighting arrangements must remain in state of readiness.

7. Precautionary Measures By Concerned Organizations:

All concerned organizations including PDMAs/DDMAs are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations (especially in the context of flood generating hill torrents in the areas of forecast) to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

8. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system and is keeping all concerned fully informed through FFD, Lahore.

(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

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- 3. Minister for Climate Change, Islamabad.
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- 33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
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- 37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
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- 41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
- 42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
- 43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
- 44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
- 45. Managing Director, WASA, Rawalpindi.
- 46. Principal Information Officer, Press Information Department, Islamabad.
- 47. Director (News), Associated Press of Pakistan, Islamabad.
- 48. Director (News), Pakistan Television, Islamabad.
- 49. Flood Cell, General Staff Branch, Engineers Directorate, GHO, Rawalpindi.
- 50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad. U.O. No.FC-I (31)/2022, Dated 19-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 19, 2022 at 0600 Hours

A. River Flow Situation: (Discharge in Cusecs)

Structures	Designed Capacity	Historic Peak Floods experienced to-date*		Last Year Flow		Today Actual Flow with Flood Classification			Comparative Danger
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	(VHF) Classificatio n
1	2	3	4	5	6	7	8	9	10
River Indus									
Tarbela Reservoir	1,500,000	604,000	30-7-2010	114,000	130,000	301,000	256,000	Low Flood (F)	650,000
Kalabagh	950,000	950,000	14-7-1942	176,000	168,000	281,000	277,000	Low Flood (R)	650,000
Chashma Reservoir	950,000	1,036,673	01-8-2010	186,000	170,000	388,000	373,000	Low Flood (F)	650,000
Taunsa	1,000,000	959,991	02-8-2010	169,000	140,000	461,000	461,000	Med Flood (F)	650,000
Guddu	1,200,000	1,199,672	15-8-1976	121,000	90,000	346,000	346,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	82,000	32,000	344,000	344,000	Low Flood (R)	700,000
Kotri	875,000	981,000	14-8-1956	38,000	2,000	199,000	199,000	Normal	650,000
River Kabul									
Warsak	540,000				21,000		39,000	Normal	200,000
Nowshera		450,000	29-07-2010		27,000		79.000	Low Flood (S)	200,000
River Swat									
Chakdara Bridge		360,000	30-07-2010		9,000		17,000	Normal	150,000
Munda(H. Works)		355,000	29-07-2010		7,000		15,000	Normal	150,000
Charsadda Road	150,000	360,000	30-07-2010		6,000		15,000	Normal	100,000
River Jhelum									
Mangla Reservoir	1.060.000	1,090,000	10-9-1992	23,000	34,000	28,000	7,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	27,000	12,000	6,000	NIL	Normal	225,000
River Chenab									
Marala	1.100.000	1,100,000	26-8-1957	42,000	6,000	72,000	54,000	Normal	400,000
Khanki	1,100,000	1,086,460	27-8-1959	9,000	2,000	65,000	59,000	Normal	400,000
Oadirabad	900,000	948,530	11-9-1992	8,000	NIL	76,000	60,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	25,000	12,000	130,000	122,000	Normal	450,000
Panjnad	865,000	802,516	17-8-1973	14,000	NIL	96,000	90,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		4,000		11,000	Normal	150,000
Shahdara	250,000	680,000	22-9-1988		21,000		11,000	Normal	135,000
Balloki	380,000	336,200	28-9-1988	28,000	NIL	49,000	23,000	Normal	135,000
Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	15,000	5,000	Normal	90,000
River Sutlej									
Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	17,000	7,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	3,000	2,000	Normal	175,000

B. Reservoir Storage Position:

	Maximum	Minimum Operating Level (Ft-AMSL)	Water Level (Feet-AMSL)			Live Storage (MAF)			Present
Reservoir	Conservation Level (Ft-AMSL)		2020	2021	2022	Maximum	Last Year	Today	Storage (%age of total storage)
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1534.93	1543.40	1549.20	5.827	5.505	5.781	99.21 %
Chashma	649.00	638.15	646.80	645.70	640.00	0.278	0.145	0.024	8.63 %
Mangla	1242.00	1050.00	1236.80	1202.90	1174.75	7.356	4.518	2.905	39.49 %
	Total Live Storage				13.461	10.168	8.710	64.71 %	

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ /-	
)	
Maximum	31.1 °C	25.5 °C	- 5.6 °C	
Minimum	14.0 °C	15.3 °C	+ 1.3 °C	

NOTES: "Mild" Categories

Low Flood: River

Medium Flood: River

River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas River partly inundating river islands/belas

High Flood: River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboards

"Danger" Categories Very High Flood (VHF): Exceptionally High Flood (EHF): River flowing between high banks/bunds with encroachment on the freeboard Imminent danger of overtopping/breaching, or the high bank areas have become inundated

* Flood Classification/ Historic Peak Floods: (applied on downstream discharge/Outflow)

(R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory Rainfall (mm)						
A	Punjab	Kamian (mm)					
1.	Rahim Yar Khan	39					
2.	DG Khan	23					
3.		12					
	Khanpur						
<u>4.</u> 5.	Bahawalpur & Layyah Kallar	10 each 08					
6.	Bhakkar & Murree						
		07 each					
7.	Kot Addu	05					
В	Sindh	255					
8.	Padidan	355					
9.	Sakrand	138					
10.	Larkana	129					
11.	Moin-Jo-Daro	124					
12.	Khair Pur	121					
13.	Shaheed Benazirabad	114					
14.	Rohri	90					
15.	Jacobabad	81					
16.	Sukkur	75					
17.	Dadu	69					
18.	Tando Jam	61					
19.	Mirpur Khas	60					
20.	Chhor	44					
21.	Hyderabad	21					
22.	Mithi	14					
23.	Badin & Karachi	10 each					
С	Balochistan						
24.	Khuzdar	37					
25.	Kalat	30					
26.	Quetta	23					
27.	Sibbi	09					
28.	Barkhan	07					
29.	Ziarat	05					
D	Khyber Pakhtunkhwa	•					
30.	D.I.Khan	29					
E	Gilgit-Baltistan						
31.	Hunza	25					
32.	Bagrote	05					
F	AJ&K						
33.	Dhulli	07					

Source: FFD, Lahore (Phone No. 042 99200139)