



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

6-Attaturk Avenue, G-5/1, Islamabad  
Fax No. 051-9244621 & www.ffc.gov.pk

**FFC's  
DAILY WEATHER & FLOOD SITUATION REPORT  
SATURDAY AUGUST 20, 2022**

**Rivers & Reservoirs Situation:**

At present **River Indus** is flowing in “**Medium Flood**” at **Taunsa-Guddu, Guddu-Sukkur** and **Sukkur-Kotri** reaches. It is flowing in “**Low Flood**” at **Kalabagh, Chashma** and **Kotri**. **River Kabul** (a tributary of River Indus downstream Tarbela) is also in “**Low Flood**” at **Nowshera-Warsak** reach. Other main Rivers i.e. **Jhelum, Chenab, Ravi & Sutlej** are 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.

2. By the grace of Almighty Allah, today **Tarbela reservoir** has attained its Maximum Conservation Level (MCL) i.e. **1550.00 feet**. This has become possible with extremely good reservoir operation by the Tarbela Dam Management while fully cognizant of heavy monsoon activity.

3. **Tarbela dam operating authorities are advised to take utmost care and exercise extra vigilance in the reservoir further operation and strictly follow SOPs and associated Dam Safety Guidelines while managing the upstream inflows and releasing downstream discharges.** The present Combined Live Storage of country's three major reservoirs (**Tarbela, Chashma & Mangla**) is **8.803 MAF** (i.e. **65.40 %** of **13.461 MAF**).

4. **Prevalent Meteorological Situation:**

Yesterday's **Low Pressure Area** earlier prevailing over Southeastern Sindh today lies around Jacobabad (Sindh). Also yesterday's **Well Marked Low Pressure Area** has intensified into a **Deep Depression** and today lies over North Orissa (India). Trough of Westerly Wave is remained stationery 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 7000 feet. (Source: FFD, Lahore).

5. **Weather & Rainfall Forecast (Next 24 hours):**

Under the influence of prevailing conditions, FFD, Lahore has predicted **Scattered to Widespread Thunderstorm/Rain** with “**Heavy Falls**” at **isolated places** and “**Very Heavy Falls**” at one or two places over **Central & Upper Sindh, Eastern Balochistan, Islamabad** including over upper catchments of **Rivers Kabul & Indus**, besides over **Rawalpindi, Bahawalpur, Multan & D.G. Khan Divisions (Punjab) & Peshawar Division (Khyber Pakhtunkhwa)** during the next 24 hours.

6. Also **Scattered Thunderstorm/Rain** of **Moderate Intensity** with **isolated “Heavy Falls”** is expected over upper catchments of **Rivers Jhelum, Chenab & Ravi** including **Gujranwala & Sargodha Divisions (Punjab), Kohat, Bannu & D.I. Khan Divisions (Khyber Pakhtunkhwa)**, in addition to **isolated Thunderstorm/Rain** of **Light to Moderate Intensity** over rest of the country during the same period.

7. During the past 24 hours **Very Heavy Rainfall** has been experienced over **Sindh (Padidan=240 mm)**. Complete rainfall details for the past 24 hours may be seen at **Annexure-II**.

8. **Weather Outlook & Flood Forecast, 20<sup>th</sup>-26<sup>th</sup> August 2022**

FFD, Lahore, has reported that a fresh **Strong Monsoon activity** is likely to start over **Sindh, Balochistan, Southern Punjab** and **Khyber Pakhtunkhwa (D.I Khan Division)** from **23<sup>rd</sup> to 26<sup>th</sup> August, 2022**. There is a likelihood of **Heavy to Very Heavy Rainfall** over the upper catchments of **Rivers Kabul & Indus** including their tributaries from **20<sup>th</sup> to 22<sup>nd</sup> August 2022**.

9. As a consequence:

- **Moderate Flash Flooding** is expected in the **Rivers/Nullahs of Eastern Balochistan** during the next 24 hours and **Heavy** after 24 hours.
- **Medium to High Level Flooding** is expected in **River Kabul** at **Nowshera** including its **Tributaries & River Indus** from **20<sup>th</sup> to 22<sup>nd</sup> August 2022**.
- **Low to Medium Level Flooding** is likely in the **Hill Torrents of D.G. Khan Division** during next 24 hours, while **High to Very High Level flood** after 24 hours. As a result of flood flows generated from the **Hill Torrents of D.G. Khan Division, River Indus** at **Taunsa Barrage** is likely to attain **High to Very High Level Flood** after 24 hours.
- **River Indus** may also attain **High Flood Level** at **Guddu** on **21<sup>st</sup> August 2022** and at **Sukkur** on **22<sup>nd</sup> August 2022**.

10. **Breach at Qadirpur Shank Bund (District Ghotki Sindh):**

As reported by Irrigation Department, Government of Sindh, due to continuous & unprecedented heavy rainfall and wave wash action, a breach, **80 feet** in length, has occurred along **Qadirpur Shank Bund** (located at left bank downstream of Guddu Barrage) at **mile 1/7+100** on **19<sup>th</sup> August 2022** around midnight which was further widened up to **250 feet** in length.

11. It has been further reported by PID Sindh that the **Qadirpur Shank Bund** is located within Kacha Area protecting some small villages which have now been affected, whereas **Qadirpur Loop Bund** is the main protection bund which reportedly is intact. The water flowing from the breach of Shank Bund will not affect the population of Pacca Area. All necessary material and machinery has been mobilized by the field formation of PID Sindh at the site to combat any likely flood emergency. District Administration has evacuated the people from the affected area to the safer places. Arrangements for plugging the breach by the Irrigation Department Sindh are in process.

12. **Special Precautionary Measures By Concerned Organizations:**

All concerned organizations including field formations of respective Irrigation Departments of Punjab (**in particular for Taunsa downstream**) and Sindh (**in particular from Guddu Barrage to Kotri Barrage**) are strictly advised to ensure unhalted flood fighting required and remain on **“High Alert”**, take all necessary precautionary measures as per the Contingency Plan for further Flood Fighting activity and round-the-clock patrolling of river embankments and training works including irrigation & drainage network.

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

Further to above, Manager of major dams/ reservoirs/ barrages/ headworks are strictly cautioned to remain on **“High Alert”** to effectively manage/ route forecasted river discharges without compromising on structural safety.

14. All concerned organizations including PDMAs/DDMAs are also 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 in Punjab & Sindh) to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

15. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country in the specific context of **Low Pressure Area** over **Sindh** and is keeping all concerned fully informed through FFD, Lahore.

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

**Distribution:**

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.

### **Distribution:**

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4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
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10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
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13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
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16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
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20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta.
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
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28. Commissioner, Rawalpindi.
29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
30. Secretary, Irrigation Department, Government of Sindh, Karachi.
31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
39. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
40. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
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, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

**U.O. No.FC-I (31)/2022, Dated 20-08-2022**

### **Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions August 20, 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 (VHF) Classification <sub>n</sub>
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	111,000	144,000	250,000	219,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	177,000	169,000	258,000	254,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	170,000	375,000	359,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	169,000	141,000	435,000	435,000	Med Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	121,000	90,000	362,000	362,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	81,000	32,000	351,000	351,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	36,000	1,000	219,000	219,000	Low Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				21,000		41,000	Low Flood (R)	200,000
• Nowshera		450,000	29-07-2010		28,000		61,000	Low Flood (F)	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		12,000		14,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		7,000		12,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		5,000		10,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	23,000	34,000	26,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	27,000	12,000	7,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	49,000	13,000	76,000	54,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	13,000	6,000	65,000	59,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	15,000	NIL	53,000	37,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	25,000	12,000	121,000	113,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	13,000	NIL	96,000	90,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		4,000		11,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		20,000		10,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	24,000	NIL	35,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	20,000	8,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	18,000	7,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	4,000	3,000	Normal	175,000

### B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Ft-AMSL)	Minimum Operating Level (Ft-AMSL)	Water Level ( Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1536.93	1541.99	1550.00	5.827	5.424	5.827	100 %
Chashma	649.00	638.15	646.70	646.60	640.90	0.278	0.173	0.038	13.67 %
Mangla	1242.00	1050.00	1237.35	1202.60	1175.40	7.356	4.499	2.938	39.94 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>10.096</b>	<b>8.803</b>	<b>65.40 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	33.1 °C	31.7 °C	- 1.4 °C
Minimum	17.4 °C	15.5 °C	- 1.9 °C

#### NOTES: "Mild" Categories

- Low Flood: River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas  
 Medium Flood: 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): River flowing between high banks/bunds with encroachment on the freeboard  
 Exceptionally High Flood (EHF): 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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**SATURDAY AUGUST 20, 2022**  
**Significant Rainfall Events during the Past 24 Hours**

<b>Sr. No.</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
<b>A</b>	<b>Punjab</b>	
1.	DG Khan	21
2.	Mirkhani	20
3.	Bhandu Wala	13
<b>B</b>	<b>Sindh</b>	
4.	<b>Padidan</b>	<b>240</b>
5.	Moin-Jo-Daro	86
6.	Larkana	81
7.	Shaheed Benazirabad	65
8.	Jacobabad	64
9.	Rohri	63
10.	Sukkur	49
11.	Khairpur	40
12.	Dadu	35
13.	Sakrand	20
14.	Tando Jam	14
15.	Hyderabad	06
<b>C</b>	<b>Balochistan</b>	
16.	Lasbela & Dalbandin	15 (each)
17.	Sibbi	07
18.	Barkhan	06
19.	Chaman	05
<b>F</b>	<b>AJ&amp;K</b>	
20.	Kotli	06

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