



**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  
WEDNESDAY AUGUST 24, 2022**

**Rivers Hydrological Situation:**

Owing to the heavy flows generated from the hill torrents of Koh-e-Suleman mountain ranges upstream **Taunsa**, High Flood discharges had been experienced at Taunsa Barrage (from **18<sup>th</sup> to 21<sup>st</sup> August 2022**). The impact has now been shifted to control structures downstream Taunsa where **Indus** is in “**High Flood**” at **Guddu** and **Sukkur** since **22<sup>nd</sup> August 2022 (1200 hours)** and **23<sup>rd</sup> August 2022 (1200 hours)** respectively.

2. Rains in D.G Khan hill torrent areas since the last 24 hours have once again generated increased flows (Kaura=106,000 cusecs, Vehova= 44,000 cusecs, Sanghar = 54,000 cusecs & Sori Lund = 29,000 cusecs today at 0800 hours) as reported by PID Punjab. Presently **River Indus** is in “**Medium Flood**” at **Taunsa** and in “**Low Flood**” at **Kalabagh, Chashma & Kotri** at 0600 hour today.

3. Further to above **River Kabul** (a tributary of River Indus downstream Tarbela) is in “**Low Flood**” both at **Warsak & Nowshera**. Other main Rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej) are discharging Normal Flows. **Annexure-I** depicts main rivers inflows/ outflows at important control structures.

**Reservoirs Storage Position:**

4. **Tarbela** reservoir is being maintained at its **Maximum Conservation Level (MCL)** of **1550.00 feet** since **20<sup>th</sup> August 2022**, while **Mangla Dam** is at **El: 1178.45 feet** against its **MCL: 1242 feet (57.94%** storage still left). Present Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **8.979 MAF** (i.e. **66.70 %** of **13.461 MAF**) (**Annexure-I**). Tarbela Dam Management Authorities are advised to take utmost care and exercise extra vigilance in the reservoir operation and ensure realistic dam regulation with a view to manage high flows from Kabul and to reduce inflows at Taunsa.

**Prevalent Meteorological Situation (Source: FFD, Lahore):**

5. Yesterday's **Depression** over Southeastern Rajasthan (India) today lies over Southwestern Rajasthan (India) and adjoining Sindh (Pakistan). Trough of Westerly Wave earlier over Northwestern parts of Afghanistan today lies over Northern parts of Afghanistan with Seasonal Low lies over Western Balochistan. Moderate to Strong Moist currents from both Arabian Sea and Bay of Bengal are penetrating over most parts of Pakistan except Western Balochistan up to 10000 feet.

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

6. **Widespread thunderstorm/rain** of **Heavy to Very Heavy Intensity** with **Extremely Heavy Falls** at **isolated places** is expected over **Punjab (D.G. Khan Division), Sindh, Khyber Pakhtunkhwa (D.I. Khan Division)** and **Eastern Balochistan**. **Scattered to widespread thunderstorm/rain** of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** are expected over the upper catchments of Rivers Kabul & Indus.

7. In addition to above, **Scattered thunderstorm/rain** of **Moderate Intensity** is expected over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Multan & Bahawalpur Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat & Bannu Divisions)** including upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej, besides, isolated thunderstorm/ rain over rest of the country except Western Balochistan. Significant rainfall events for the past 24 hours may be seen at **Annexure-II**.

## Weather Outlook & Flood Forecast, 25<sup>th</sup>-31<sup>th</sup> August 2022:

8. A Strong Monsoon activity is likely over, upper catchments of Rivers Kabul & Indus along with **Punjab (D.G. Khan & Sargodha Divisions) Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan divisions) and Eastern Balochistan during further 24 hours.**

As a consequence FFD, Lahore has predicated as under:

- **Very High to Exceptionally High Level Flooding** in the **Hill Torrents of D.G. Khan Division** and in the **Rivers/Nullahs of Eastern Balochistan** from **24<sup>th</sup> to 25<sup>th</sup> August 2022.**
- **Flows from Hill Torrents of DG Khan Division** may cause **High to Very High Level Flooding** at Taunsa from **24<sup>th</sup> to 25<sup>th</sup> August 2022.**
- **Urban Flooding** in **Sindh** during next 24 hours.
- **High to Very High Level Flooding** in **River Kabul** at **Nowshera** and Tributaries of Rivers Kabul & Indus from **25<sup>th</sup> to 26<sup>th</sup> August 2022.**

### Special Precautionary Measures By Concerned Organizations:


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

### Specific Directions For Dam/Reservoir/Barrages Management Organizations:

10. Further to above, Managers of major dams (**Tarbela & Chashma in particular**)/ reservoirs/ barrages/ headworks are strictly cautioned to remain on **“High Alert”** to effectively manage/ route forecasted river discharges to avoid any downstream flooding (**Taunsa Barrage on-wards**).

11. 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 forecasted areas of Punjab, Sindh & Balochistan**) to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

12. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country in the specific context of **Depression** over Southwestern Rajasthan (India) and adjoining Sindh (Pakistan) 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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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 24-08-2022**

## **Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions August 24, 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
		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	136,000	103,000	213,000	199,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	118,000	111,000	271,000	266,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	154,000	141,000	382,000	364,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	135,000	116,000	445,000	445,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	120,000	88,000	547,000	547,000	High Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	85,000	34,000	560,000	560,000	High Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	28,000	NIL	271,000	271,000	Low Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				16,000		46,000	Low Flood (F)	200,000
• Nowshera		450,000	29-07-2010		18,000		71,000	Low Flood (F)	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		3,000		14,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		3,000		12,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		4,000		13,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	20,000	29,000	40,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	27,000	12,000	6,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	48,000	13,000	60,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	12,000	5,000	48,000	41,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	20,000	NIL	45,000	25,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	24,000	8,000	88,000	74,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	14,000	NIL	101,000	94,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		3,000		10,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		20,000		21,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	30,000	1,000	43,000	16,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	14,000	NIL	16,000	5,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	16,000	4,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	5,000	4,000	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	1544.93	1544.15	1550.00	5.827	5.548	5.827	100 %
Chashma	649.00	638.15	648.50	645.30	642.00	0.278	0.133	0.058	20.86 %
Mangla	1242.00	1050.00	1238.60	1201.35	1178.45	7.356	4.417	3.094	42.06 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>10.098</b>	<b>8.979</b>	<b>66.70 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	34.8 °C	26.5 °C	- 8.3 °C
Minimum	16.4 °C	14.1 °C	- 2.3 °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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**DAILY WEATHER AND FLOOD SITUATION REPORT**  
**WEDNESDAY AUGUST 24, 2022**  
**Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	Rahim Yar Khan	53
2.	Jhelum	47
3.	Khanpur	46
4.	DG Khan	41
5.	Sialkot	39
6.	Kot Addu	38
7.	Chakwal	24
8.	Mangla	20
9.	Zafarwal	19
10.	Islamabad & Mianwali	18 each
11.	Daulatnagar	15
12.	Mandibahauddin	14
13.	Multan	13
14.	Murree	12
15.	GS Wala	11
16.	Bhandu Wala & Bahawalpur	09 each
17.	Khanewal & Bhakkar	06 each
18.	Chakri	05
<b>B</b>	<b>Sindh</b>	
19.	Badin	90
20.	Mirpur Khas	84
21.	Tando Jam	80
22.	Chhor	77
23.	Sakrand	69
24.	Padidan	65
25.	Shaheed Benazirabad	61
26.	Hyderabad	56
27.	Rohri	41
28.	Khairpur	31
29.	Dadu & Thatta	30 each
30.	Sukkur & Moin-Jo-Daro	24 each
31.	Karachi	23
32.	Larkana	21
33.	Mithi	19
<b>C</b>	<b>Khyber Pakhtunkhwa</b>	
34.	Ghalanai	15
35.	Kakul	12
36.	Tirah-Khyber	07
37.	Mirkhani	06
38.	Chitral & Kalam	05
<b>D</b>	<b>Balochistan</b>	
39.	Barkhan	22
40.	Muslim Bagh	10
41.	Ziarat	09
42.	Lasbela	06
<b>E</b>	<b>Gilgit-Baltistan</b>	
43.	Astore	08
<b>F</b>	<b>AJ&amp;K</b>	
44.	Chakothei	35
45.	Chattar Kallas	21
46.	Kotli	14
47.	Bandi Abbaspur & Garhi Dopatta	10 each
48.	Dhulli	07
49.	Rawalakot	06

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