



**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 26, 2022**

**Rivers Hydrological Situation:**

Heavy rainfall in the catchments areas of River Swat and Kabul during past 24 hours resulted in **Very High Flood Situation** in **River Kabul** and its tributaries. At present, **River Swat** (a tributary of River Kabul) is flowing in “**Very High Flood**” at **Khwazakhela (238,995 cusecs)** and **Chakdara (224,812 cusecs)** and in “**Medium Flood**” at **Munda Head Works (69,104 cusecs)** at 1200 hour today, as reported by the Irrigation Department Government of Khyber Pakhtunkhwa. Also **River Kabul** is flowing in “**Very High Flood**” at **Nowshera (147,000 cusecs)** and “**High Flood**” at **Warsak (106,200 cusecs)** at 1200 hours today.

2. Further to above, **River Indus** is flowing in “**High Flood**” at **Guddu & Sukkur**, “**Medium Flood**” at **Taunsa & Kotri** and in “**Low Flood**” in **Tarbela-Kalabagh-Chashma** Reaches (upstream Taunsa). Other main Rivers of Indus River System i.e Jhelum, Chenab, Ravi & Sutlej are flowing in Normal Flow Condition. **Annexure-I**, depicts main rivers inflows/outflows at important control structures, at 0600 hours today.

**Reservoirs Storage Position:**

3. **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: 1180.30 feet** against its **MCL: 1242 feet (56.63% storage still left)**. Present Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **9.075 MAF** (i.e. **67.42 %** of **13.461 MAF**: reference **Annexure-I**). Tarbela Dam Management Authority to exercise utmost care and extra vigilance in the reservoir operation and ensure dam regulation as per SOPs with a view to manage high flows from Kabul and to reduce inflows at Taunsa.

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

4. Yesterday's **Well Marked Low Pressure Area** over Central Sindh has converted into **Low** and today lies over South of Jacobabad. Trough of Westerly Wave earlier over Northeastern Afghanistan and adjoining areas today lies over Northern parts of Pakistan with Seasonal Low continues to prevail over Western Balochistan. Moderate Moist currents both from Arabian Sea and Bay of Bengal are penetrating over most parts of Pakistan up to 10000 feet.

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

5. **Scattered to Widespread thunderstorm/rain of Heavy Intensity** with **Isolated Very Heavy Falls** is expected over the upper catchments of Rivers Kabul and Indus. **Scattered thunderstorm/rain of Moderate Intensity** with **Isolated Heavy Falls** may also occur over **Islamabad, Punjab (D.G. Khan, Rawalpindi, Gujranwala, Sargodha & Bahawalpur Divisions), Khyber Pakhtunkhwa (D.I. Khan, Kohat, Bannu & Peshawar Divisions), Sindh (Larkana Division)** and **Eastern Balochistan** including upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej, besides isolated thunderstorm/rain of **Light to Moderate Intensity** over rest of the country except Western Balochistan.

6. Under the influence of above weather system, FFD, Lahore has predicted:

- **Very High and Above Level Flooding** in **River Kabul** at **Nowshera (up to 300,000 cusecs)** and tributaries of **Rivers Indus & Kabul** during next **48 hours**.
- **Severe Flash Flooding** is likely to continue in **Rivers/Nullahs of Balochistan** during next **24 hours**.
- **Low to Medium Level Flooding** is expected in the Hill Torrents of DG Khan Division during next **24 hours**.

7. **Heavy Rainfall** has been experienced during the past 24 hours over **Punjab (Bhakkar=71 mm), Khyber Pakhtunkhwa (Besham=104 mm, Dir=90 mm & Lower Dir=80 mm)** and **Balochistan (Quetta=86 mm & Sibbi=69 mm)**. Overall detail of significant rainfall events for the past 24 hours is at **Annexure-II**.

**FFD's Weather Outlook & Flood Forecast from 27<sup>th</sup> August 2022 to 02<sup>nd</sup> September 2022:**

8. Monsoon activity is likely to decrease further over most parts of the country which may significantly subside the rainfall activity over upper catchments of all the Major Rivers.

**Continued Precautionary Measures By Concerned Organizations:**

9. All concerned organizations including field formations of Irrigation Departments Punjab, Khyber Pakhtunkhwa 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 all along the river.

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

10. In view of FFD, Lahore Forecast of Very High and above High Level Flooding at Nowshera on River Kabul during the next 48 hours extra-ordinary measures be ensured by WAPDA forthwith through its Chashma Barrage Management at Chashma.

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, Khyber Pakhtunkhwa & 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 **Low (presently over South of Jacobabad, Pakistan)** and is keeping all concerned fully informed through FFD, Lahore.

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

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  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.
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  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 26-08-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions August 26, 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	152,000	154,000	307,000	272,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	141,000	134,000	274,000	270,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	186,000	173,000	333,000	315,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	135,000	116,000	483,000	483,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	99,000	73,000	505,000	505,000	High Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	75,000	28,000	576,000	576,000	High Flood (S)	700,000
• Kotri	875,000	981,000	14-8-1956	28,000	NIL	305,000	305,000	Med Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				16,000		87,000	Med Flood (R)	200,000
• Nowshera		450,000	29-07-2010		16,000		116,000	High Flood (R)	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		7,000		72,000	Med Flood (R)	150,000
• Munda (H. Works)		355,000	29-07-2010		2,000		64,000	Med Flood (R)	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		46,000	Low Flood (R)	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	23,000	34,000	50,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	28,000	12,000	8,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	57,000	21,000	71,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	25,000	18,000	54,000	47,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	26,000	6,000	68,000	48,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	24,000	8,000	60,000	46,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	58,000	52,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		3,000		22,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		20,000		25,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	5,000	42,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	22,000	10,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	16,000	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	1548.00	1544.58	1550.00	5.827	5.572	5.827	100 %
Chashma	649.00	638.15	646.50	643.20	642.00	0.278	0.082	0.058	20.86 %
Mangla	1242.00	1050.00	1239.45	1200.60	1180.30	7.356	4.368	3.190	43.37 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>10.022</b>	<b>9.075</b>	<b>67.42 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	33.6 °C	22.3 °C	- 11.3 °C
Minimum	16.3 °C	16.0 °C	- 0.3 °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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**FRIDAY AUGUST 26, 2022**  
**Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	Bhakkar	71
2.	DG Khan	54
3.	Joharabad	48
4.	Kot Addu	47
5.	Layyah	38
6.	Multan	32
7.	Hafizabad	29
8.	Khanewal	25
9.	Jhang	21
10.	Haraman & Murree	18 each
11.	Islamabad	14
12.	Shorkot	07
13.	Noorpur Thal & Dhok Pathan	06 each
<b>B</b>	<b>Sindh</b>	
14.	Moin-Jo-Daro	28
15.	Padidan	24
16.	Chhor	18
17.	Dadu	16
18.	Larkana	14
19.	Sukkur	10
20.	Jacobabad	07
21.	Tando Jam	06
<b>C</b>	<b>Khyber Pakhtunkhwa</b>	
22.	<b>Besham</b>	<b>104</b>
23.	Dir	90
24.	Lower Dir	80
25.	Kalam	72
26.	Mirkhani	55
27.	Malam Jabba	54
28.	Oghi	52
29.	D.I.Khan	51
30.	Daggar	46
31.	Drosh	43
32.	Chitral	32
33.	Balakot	28
34.	Saidu Sharif	27
35.	Phulra, Tirah-Khyber & Pattan	25 each
36.	Shinkiari	20
37.	Parachinar & Babusar	19 each
38.	Kakul	18

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<b>C</b>	<b>Khyber Pakhtunkhwa</b>	
39.	Buner	16
40.	Ghalanai & Khaar-Bajaur	15 each
41.	Pashat-Bajaur	14
42.	Takht Bai	13
43.	Risalpur	12
44.	Mamad Gut	11
45.	Peshawar, Tarbela & Cherat	08 each
46.	Landi Kotal & Kohat	6
47.	Bannu	05
<b>D</b>	<b>Balochistan</b>	
48.	Quetta	86
49.	Sibbi	69
50.	Kalat	60
51.	Ziarat	39
52.	Khuzdar	24
53.	Muslim Bagh	21
<b>E</b>	<b>Gilgit-Baltistan</b>	
54.	Bagrote & Gupis	17 each
55.	Astore	14
56.	Gilgit	12
57.	Hunza	10
<b>F</b>	<b>AJ&amp;K</b>	
58.	Domel	23
59.	Chattar Kallas	20
60.	Garhi Dopatta	19
61.	Muzaffarabad	16
62.	Palandri & Chakothi	08 each
63.	Rawalakot	06
64.	Dhulli	05
<b>Source: FFD, Lahore (Phone No. 042 99200139)</b>		