



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
THURSDAY AUGUST 25, 2022

Rivers Hydrological Situation:

At present, **River Indus** is flowing in “**High Flood**” in **Guddu-Sukkur** reach and in “**Medium Flood**” at **Taunsa**. Also, it is in “**Low Flood**” in **Kalabagh- Chashma** Reach (upstream Taunsa) & at **Kotri Barrage**. Furthermore, **River Kabul** (a tributary of River Indus downstream Tarbela) is in “**Low Flood**” both at **Warsak & Nowshera**. Other main Rivers of the Indus River System (the Jhelum, Chenab, Ravi & Sutlej) are discharging Normal Flows. **Annexure-I**, depicts main rivers inflows/outflows at important control structures, reservoirs storage position besides Skardu temperature at 0600 hours today.

Reservoirs Storage Position:

2. **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level (MCL)** of **1550.00 feet** since **20th August 2022**, while **Mangla Dam** is at **El: 1179.30 feet** against its **MCL: 1242 feet (57.35% storage still left)**. Present Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **9.022 MAF** (i.e. **67.02 % of 13.461 MAF**: reference **Annexure-I**). Tarbela Dam Management Authority is exercising utmost care and extra vigilance in the reservoir operation and ensuring 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):

3. Yesterday's **Depression** over **Southwestern Rajasthan (India)** and adjoining **Sindh (Pakistan)** has **weakened** into Well Marked Low Pressure Area and today lies over Central Sindh (Pakistan) and it is likely to weaken further. Yesterday's trough of Westerly Wave over Northern parts of Afghanistan today lies over Northeastern Afghanistan and adjoining areas while Seasonal Low at present prevails over Western Balochistan. **Moderate to Strong Moist Currents** both from Arabian Sea & Bay of Bengal are penetrating over most parts of Pakistan up to 12,000 feet.

Weather & Rainfall Forecast (Next 24 hours):

4. Under the influence of prevailing weather system, **widespread thunderstorm/rain** of **Heavy to Very Heavy Intensity** with **Extremely Heavy Falls** at isolated places is expected over **Punjab (D.G. Khan Division), Khyber Pakhtunkhwa (D.I. Khan Division)** and **North & Northeastern Balochistan** including over the upper catchments of Rivers Indus & Kabul. As a consequence, **Very High to Exceptionally High Level Flooding** is expected in the **Hill Torrents** of **D.G. Khan Division (Punjab)** and in the **Rivers/Nullahs** of **Eastern Balochistan** during the next 24 hours. In addition to this, flows generated from **Hill Torrents** of **D.G. Khan Division** may cause **Medium to High Level Flooding** at **Taunsa** during the next 24 hours.

5. Also during the same period, **scattered thunderstorm/rain** of **Moderate Intensity** with **Isolated Heavy Falls** is expected over **Islamabad, Punjab (Rawalpindi, Gujranwala & Sargodha Divisions), Sindh, and Khyber Pakhtunkhwa (Peshawar, Kohat & Bannu Divisions)**, besides over upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej. **Scattered thunderstorm/rain** of **Moderate Intensity** is also forecasted over rest of Pakistan except Western Balochistan.

6. **Very Heavy Rainfall** has been experienced during the past 24 hours over several parts of **Sindh** (Sakrand = 220 mm, Shaheed Benazirabad = 137 mm, Larkana = 130 mm, Padidan = 126 mm, Moin-Jo-Daro = 116 mm, Khairpur = 115 mm & Jacobabad = 110 mm). Overall detail of significant rainfall events for the past 24 hours is at **Annexure-II**.

FFD's Weather Outlook & Flood Forecast from 26th August 2022 to 01st September 2022:

7. Rainfall activity is likely to subside significantly from **26th August 2022** over the upper catchments of all the major rivers except the upper catchments of Rivers Indus & Kabul. However, **High to Very High Level Flooding** may occur in **River Kabul at Nowshera and Tributaries of Rivers Kabul & Indus from 25th to 26th August, 2022**. Rainfall activity will subside over the upper catchments of Rivers Indus & Kabul from **27th August 2022**.

Continued Precautionary Measures By Concerned Organizations:

8. All concerned organizations including field formations of Irrigation Department **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:

9. 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**).

10. 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, Khyber Pakhtunkhwa & Balochistan**) to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

11. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country in the specific context of **Well Marked Low Pressure Area** over Central 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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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 25-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 25, 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
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	140,000	114,000	200,000	212,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	139,000	132,000	258,000	254,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	155,000	140,000	316,000	298,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	135,000	116,000	471,000	471,000	Med Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	109,000	79,000	517,000	517,000	High Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	80,000	32,000	580,000	580,000	High Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	28,000	NIL	297,000	297,000	Low Flood (R)	650,000
River Kabul									
• Warsak	540,000				16,000		59,000	Low Flood (R)	200,000
• Nowshera		450,000	29-07-2010		17,000		78,000	Low Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		7,000		22,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		2,000		28,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		19,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	20,000	34,000	28,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	28,000		8,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	48,000	13,000	88,000	61,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	15,000	7,000	59,000	51,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	23,000	3,000	47,000	27,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	24,000	8,000	74,000	60,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	12,000	NIL	71,000	65,000	Normal	450,000
River Ravi									
• 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		22,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	3,000	41,000	14,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	NIL	20,000	10,000	Normal	90,000
River Sutlej									
• 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	1546.50	1544.37	1550.00	5.827	5.560	5.827	100 %
Chashma	649.00	638.15	647.50	644.60	642.00	0.278	0.115	0.058	20.86 %
Mangla	1242.00	1050.00	1238.90	1200.95	1179.30	7.356	4.391	3.137	42.65 %
Total Live Storage						13.461	10.066	9.022	67.02 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	35.7 °C	25.7 °C	- 10.0 °C
Minimum	17.4 °C	15.0 °C	- 2.4 °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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Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Khanpur	42
2.	Bhandu Wala	38
3.	D.G.Khan	35
4.	Islamabad, Rahim Yar Khan & Murree	26 each
5.	Joharabad & Sialkot	25 each
6.	Mianwali	23
7.	Kamra	22
8.	Mandi Bahauddin	18
9.	Attock	17
10.	Sargodha	15
11.	Bhakkar	13
12.	Haraman	11
B	Sindh	
13.	Sakrand	220
14.	Shaheed Benazirabad	137
15.	Larkana	130
16.	Padidan	126
17.	Moin-Jo-Daro	116
18.	Khairpur	115
19.	Jacobabad	110
20.	Dadu	80
21.	Sukkur	39
22.	Hyderabad	27
23.	Rohri	26
24.	Tando Jam	25
25.	Chhor	23
26.	Karachi	15
C	Khyber Pakhtunkhwa	
27.	D.I.Khan	78
28.	Dir	60
29.	Buner	53
30.	Saidu Sharif	48
31.	Bannu	39
32.	Mirkhani & Besham	37 each
33.	Kalam	36
34.	Malam Jabba	35
35.	Parachinar	34

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Sr. No.	City/Observatory	Rainfall (mm)
36.	Tarbela	32
37.	Lower Dir	28
38.	Chitral & Drosh	22 each
39.	Oghi	18
40.	Kakul	17
41.	Shinkhari	14
42.	Balakot	11
D	Balochistan	
43.	Khuzdar	87
44.	Sibbi	40
45.	Kalat	25
46.	Quetta	20
47.	Ziarat & Barkhan	18 each
48.	Muslim Bagh	15
49.	Zhob	13
E	AJ&K	
50.	Palandri	56
51.	Rawalakot	22
52.	Kotli & Garhi Dopatta	16 each
53.	Domel	13
54.	Chattar Kallas	12
Source: FFD, Lahore (Phone No. 042 99200139)		