



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

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Fax No. 051-9244621 & www.ffc.gov.pk

**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SATURDAY AUGUST 27, 2022**

Rivers Hydrological situation:

Owing to continued heavy rainfall activity in the upper catchment areas during **25th-26th August 2022**, River Swat has experienced **Very High Flood Situation** from 0900 hours yesterday to 0930 hours today. At present the flood flows in **River Swat** is receding. It is flowing in **High Flood** at **Khwazakhela** (the flow has receded from 246,000 cusecs to 71,000 cusecs), **Medium Flood** at **Chakdara** (the flow has receded from 275,000 cusecs to 55,000 cusecs) and **High Flood** at **Munda Head Works** (the flow has receded from 260,000 cusecs 89,000 cusecs at 1130 hours today), as reported by the Irrigation Department, Government of Khyber Pakhtunkhwa.

2. **River Kabul** was flowing in “**Very High Flood**” at **Nowshera** with discharge of **263,000 cusecs** at **0600 hours**. It is presently discharging the maximum flows (**315,000 cusecs** at **1230 hours** today). Also it is in “**High Flood**” upstream Nowshera i.e; at **Warsak** (**139,000 cusecs** at **1230 hours** today). **River Indus** at **Khairabad** (junction point after merging River Kabul in Indus) was flowing in “**High Flood**” of **586,000 cusecs** at **1230 hours** today. Flow has now receded to **555,000 cusecs** as reported by Tarbela Dam Management.

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

4. As reported by the field formation of Irrigation Department, Government of Khyber Pakhtunkhwa, **Very High Flood flows** experienced at **Munda Headwork** caused severe damages to the Headwork. As a result three (03) of its bays out of total of **8 No. bays**, have been washed away at **2300 hours yesterday (26th August 2022)**. Also **Coffer Dam** of the under construction **Mohmand Dam** (upstream Munda Headworks) has reportedly been damaged yesterday night.

Reservoirs Storage Position:

5. Based on the **Significant Flood Warning** for **River Indus** at **Kalabagh & Chashma** issued by FFD, Lahore on **26th August 2022** and in line with the instructions issued to Tarbela and Chashma Reservoir Managements space had been created both in the Tarbela & Chashma Reservoirs from August 26, 2022 evening to August 27, 2022 morning (Tarbela from MCL of 1550.00 feet to 1549.27 feet; Chashma from 642.00 feet to its Dead Level of 638.15 feet) to cater for the incoming high flood flows from upstream Tarbela and River Kabul & Indus combined downstream flows from Khairabad to Chashma.

6. Further **Mangla Dam** (River Jhelum) is at **El: 1181.70 feet** against its **MCL: 1242 feet (55.59% storage still left)**. Present Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **9.051 MAF** (i.e. **67.24 % of 13.461 MAF: reference Annexure-I**). WAPDA Authorities both at Tarbela & Chashma and Punjab Irrigation Department field formation at Taunsa Barrage are exercising utmost care and extra vigilance in the reservoir/ barrage operation for effective flood routing downstream.

Prevalent Meteorological Situation (Source: FFD, Lahore):

7. Yesterday's **Low Pressure Area** over South of Jacobabad (Sindh) has become insignificant. Trough of Westerly Wave has weakened and persisting over Northern parts Pakistan with Weak Seasonal Low lies over Western Balochistan. At present, weak moist currents from Arabian Sea are penetrating into Northeastern Punjab up to 3000 feet.

Weather & Rainfall Forecast (Next 24 hours):

8. Mainly dry weather has been predicted by FFD, Lahore, over most parts of the country, however there is likelihood of Isolated thunderstorm/rain over **Punjab (D.G. Khan, Rawalpindi, Gujranwala & Lahore Divisions), Khyber Pakhtunkhwa (D.I. Khan Division) and Northeastern Balochistan** including upper catchments of all the Major Rivers of Indus River System.

Flood Forecast for next 48 hours (Today's FFD, Lahore Bulletin, at 1145 hours):

9. Under the influence of prevailing hydrological and Meteorological conditions, FFD, Lahore has predicted:

- Present High to Very High Level Flooding in Tributaries of Rivers Kabul & Indus is likely to **subside significantly** during next 24 hours.
- **Very High and Above Level Flooding** is likely to continue in **River Kabul** at **Nowshera** during the next **24 hours**.
- **River Indus** at **Kalabagh & Chashma** is likely to attain **High to Very High Level Flooding** during next **24 to 48 hours**.

Significant rainfall during past 24 hours:

10. **Heavy Rainfall** has been experienced during the past 24 hours over **Khyber Pakhtunkhwa (Besham=70 mm, Dir=90 mm & Kalam=43 mm), Balochistan (Quetta=55 mm) and AJ&K (Garhi Dopatta=61 mm & Dhulli=46 mm)**. Overall detail of significant rainfall events for the past 24 hours is at **Annexure-II**.

11. **River Indus** at **Taunsa, Guddu & Sukkur** may attain **High Level Flooding** during the period from **28th August 2022 to 03rd September 2022**.

Continued Precautionary Measures By Concerned Organizations:

12. All concerned organizations including field formations of **Irrigation Departments Punjab, Khyber Pakhtunkhwa and Sindh** 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:

13. Managers of major dams (**Tarbela & Chashma in particular**)/ reservoirs/ barrages/ headworks are strictly cautioned and advised to continue with present reservoir management measures for effective flood routing downstream.

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 Very High Flood Flows generated in River Kabul & Swat**) 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 and is keeping all concerned fully informed through FFD, Lahore.


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

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2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.

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8. Secretary, Ministry of National Food Security & Research, Islamabad
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
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11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
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.
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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 27-08-2022

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 27, 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	179,000	154,000	395,000	332,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	189,000	182,000	320,000	316,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	166,000	151,000	424,000	425,000	Med Flood (S)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	135,000	116,000	504,000	504,000	High Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	99,000	73,000	490,000	490,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	69,000	27,000	570,000	570,000	High Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	29,000	NIL	315,000	315,000	Med Flood (S)	650,000
River Kabul									
• Warsak	540,000				17,000		130,000	High Flood (R)	200,000
• Nowshera		450,000	29-07-2010		16,000		263,000	V. High Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		7,000		83,000	High Flood (F)	150,000
• Munda(H. Works)		355,000	29-07-2010		3,000		35,000	High Flood (F)	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		140,000	V. High Flood (F)	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	20,000	29,000	75,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	28,000	12,000	5,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	61,000	26,000	66,000	38,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	27,000	20,000	45,000	38,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	32,000	10,000	40,000	20,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	23,000	7,000	51,000	39,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	58,000	52,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		11,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	33,000	4,000	46,000	18,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	NIL	25,000	12,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	17,000	3,000	18,000	8,000	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 (FL-AMSL)	Minimum Operating Level (FL-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	1549.00	1544.67	1549.27	5.827	5.578	5.784	99.26 %
Chashma	649.00	638.15	645.50	641.90	638.15	0.278	0.056	0.000	00.00 %
Mangla	1242.00	1050.00	1239.75	1200.15	1181.70	7.356	4.338	3.267	44.41 %
Total Live Storage						13.461	9.972	9.051	67.24 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	34.6 °C	24.8 °C	- 9.8 °C
Minimum	18.4 °C	14.3 °C	- 4.1 °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 27, 2022
Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Ravi Syphon	25
2.	Sargodha	23
3.	Rahim Yar Khan	17
4.	DG Khan	13
5.	Noorpur Thal	11
6.	Murree, Lahore & G.S Wala	08 each
B	Sindh	
7.	Padidan	06
C	Khyber Pakhtunkhwa	
8.	Besham	70
9.	Kalam	43
10.	Lower Dir	42
11.	Malam Jabba	39
12.	Saidu Sharif & Parachinar	35 each
13.	Dir & Buner	28 each
14.	Pattan	24
15.	Chitral	22
16.	Drosh	20
17.	Babusar	16
18.	Kakul	13
19.	Mirkhani	12
20.	Daggar, Bannu, & Balakot	09 each
21.	Cherat	08
22.	Shinkiari	06
23.	Tirah-Khyber	05
D	Balochistan	
24.	Quetta	55
25.	Mastung	17
26.	Sibbi	16
E	Gilgit-Baltistan	
27.	Bagrote	21
28.	Gilgit	15
29.	Bunji	13
30.	Astore	07
31.	Chilas	05
F	AJ&K	
32.	Garhi Dopatta	61
33.	Dhulli	46
34.	Bandi Abbaspur	33
35.	Chakothe	30
36.	Muzaffarabad	19
37.	Domel	11
38.	Kotli	10
39.	Rawalakot	05

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