



**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
Time 1330 hours

**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SUNDAY AUGUST 28, 2022**

Rivers Hydrological situation:

The flood flows in **River Swat** (Khwazakhela, Chakdara & Munda Head Works) are gradually receding. At present (**1300 hours today**), it is flowing in **Low Flood** at **Khwazakhela** (the flow has receded from **246,000 cusecs** to **32,000 cusecs**), **Medium Flood** at **Chakdara** (the flow has receded from **275,000 cusecs** to **56,000 cusecs**) and **Medium Flood** at **Munda Head Works** (the flow has receded from **260,000 cusecs** to **72,000 cusecs**), as reported by the Irrigation Department, Government of Khyber Pakhtunkhwa.

2. **River Kabul** is flowing in “**Very High Flood**” at **Nowshera** with discharge of **309,000 cusecs** at **1300 hours** today). At **Warsak** (Upstream of Nowshera) it is also flowing in “**High Flood**” (**120,000 cusecs** at **1300 hours** today). **River Indus** at **Khairabad** (junction point after merging River Kabul in Indus) is also flowing in “**High Flood**” with discharge of **531,000 cusecs**. It has experienced a peak discharge of **602,400 cusecs** on **August 27, 2022 (from 10:30 AM – 12:30 PM)**.

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

Reservoirs Storage Position:

4. **Tarbela Reservoir** at present, is at its **Maximum Conservation Level (MCL)** of **1550.00 feet**, whereas **Mangla Dam** is at **El: 1183.25 feet** against its **MCL: 1242 feet (54.42 % storage still left)**. **Chashma Reservoir** is at an Elevation of **640.30 feet**.

5. **Both Tarbela and Chashma Reservoirs** are being effectively managed since **August 25, 2022, 1800 hours** till the reporting time today to ensure downstream flood routing to avoid any **Very High Flood peak** downstream Chashma.

6. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.209 MAF** (i.e. **68.41 %** of **13.461 MAF**: reference **Annexure-I**). WAPDA Authorities both at Tarbela & Chashma and field formation of Punjab Irrigation Department (at Taunsa) are exercising utmost care and extra vigilance in the reservoir/ barrage operation for effective flood routing for the downstream.

Prevalent Meteorological Situation (Source: FFD, Lahore):

7. Yesterday's trough of Westerly Wave over Northern parts Pakistan today lies over Kashmir and adjoining areas, whereas “**Weak Seasonal Low**” still persists over Western Balochistan. At present, weak moist currents from Arabian Sea are penetrating into Northeastern Punjab up to 3,000 feet.

Weather & Rainfall Forecast (Next 24 hours):

8. Mainly dry weather has been predicted by FFD, Lahore, over most parts of the country, however Isolated thunderstorm/rain is expected over **D.G. Khan & Rawalpindi Divisions of Punjab, D.I. Khan Division of Khyber Pakhtunkhwa, Northeastern Balochistan** and upper catchments of all the Major Rivers of Indus River System during the next 24 hours.

9. As per FFD Lahore, **Very High and above Level Flooding** is likely to continue in **River Kabul** at **Nowshera** during next 24 hours. **River Indus** at **Kalabagh** is likely to attain **High flood level**, while **Chashma** is likely to remain in **High flood level** during next 24 hours. The significant rainfall events reported by FFD Lahore during the past 24 hours are at **Annexure-II**.

Continued Precautionary Measures By Concerned Organizations:


10. 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 to protect flood protection infrastructures 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:

11. Managers of major reservoirs (**Tarbela & Chashma in particular including Taunsa**)/ reservoirs/ barrages/ headworks are advised to continue with present reservoir management measures for effective flood routing downstream keeping in view the River Kabul Flows at Nowshera.

12. 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.

13. 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 Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
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.
8. Secretary, Ministry of National Food Security & Research, Islamabad
9. Director General (Coordination-III), President’s Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister’s Office, Islamabad.
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.

Distribution:

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.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
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 28-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 28, 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	191,000	157,000	302,000	302,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	183,000	176,000	427,000	423,000	Med Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	206,000	193,000	503,000	502,000	High Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	135,000	116,000	516,000	516,000	High Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	99,000	73,000	485,000	485,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	67,000	26,000	562,000	562,000	High Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	29,000	NIL	335,000	335,000	Med Flood (R)	650,000
River Kabul									
• Warsak	540,000				17,000		126,000	High Flood (F)	200,000
• Nowshera		450,000	29-07-2010		18,000		307,000	V. High Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		83,000	High Flood (F)	150,000
• Munda(H. Works)		355,000	29-07-2010		3,000		120,000	High Flood (S)	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		104,000	High Flood (S)	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	16,000	17,000	44,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	29,000	12,000	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	65,000	30,000	60,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	34,000	27,000	45,000	38,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	36,000	14,000	37,000	17,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	20,000	4,000	73,000	61,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	60,000	54,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		10,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		16,000	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	15,000	NIL	21,000	7,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	17,000	3,000	21,000	11,000	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	1550.00	1545.32	1550.00	5.827	5.615	5.827	100 %
Chashma	649.00	638.15	643.50	641.80	640.30	0.278	0.054	0.029	10.43 %
Mangla	1242.00	1050.00	1242.00	1199.90	1183.25	7.356	4.322	3.353	45.58 %
Total Live Storage						13.461	9.991	9.209	68.41 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	34.4 °C	25.7 °C	- 8.7 °C
Minimum	19.2 °C	16.4 °C	- 2.8 °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"

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

**DAILY WEATHER AND FLOOD SITUATION REPORT
SUNDAY AUGUST 28, 2022**

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Khyber Pakhtunkhwa	
1.	Kalam	42
2.	Dir	25
3.	Ghalanai	19
4.	D.I. Khan	11
5.	Mirkhani	08
6.	Chitral & Drosh	06 each
B	Gilgit-Baltistan	
7.	Bagrote	21
8.	Gupis	13
9.	Hunza	07
10.	Gilgit	06
C	AJ&K	
11.	Garhi Dopatta	28
12.	Dhulli	25
13.	Chakothi	13
14.	Chattar Kallas	06
Source: FFD, Lahore (Phone No. 042 99200139)		