



**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
MONDAY AUGUST 29, 2022**

Rivers Hydrological situation:

Flood flows in **River Swat** at Khwazakhela, Chakdara, Munda Head Works and Charsadda Road are gradually receding and at present (**0600 hours today**), it is flowing in “**Low Flood**” at **Chakdara, Munda Head Works** and **Charsadda Road (Annexure-I)** while in “Normal Flow Condition” at Khwazakhela, as reported by the Irrigation Department, Government of Khyber Pakhtunkhwa.

2. **River Kabul** continues to flow in “**Very High Flood**” at **Nowshera** since **26th August 2022 (0900 hours)**. It has experienced **Highest Flood Peak** of **336,000 cusecs** on **28th August 2022** at **1900 hours**, however, now flows are receding (today at 0900 hours it was flowing in “**Very High Flood**” with discharge of **297,000 cusecs**). At **Warsak** (upstream of Nowshera) Kabul is in “**Medium Flood**” (**Annexure-I**).

3. Combined flood flows of **River Indus** and **Kabul** at **Khairabad** (junction point after merging River Kabul in Indus) was recorded **495,600 cusecs** at 0900 hours today (**Medium Flood**). At Khairabad highest flood peak of **602,400 cusecs** was recorded on **August 27, 2022 (from 10:30 AM – 12:30 PM)**.

4. In **Chashma–Taunsa–Guddu–Sukkur Reaches** Indus is discharging “**High Flood**” with “**Medium Flood**” at **Kalabagh & Kotri** respectively. At Tarbela (on Indus) there is no high flood situation. 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:

5. **Tarbela Reservoir** at present is at its **Maximum Conservation Level (MCL)** of **1550.00 feet**, whereas **Mangla Dam** is at **El: 1184.30 feet** against its **MCL: 1242 feet (53.62 % storage still left)**. **Chashma Reservoir** is at an Elevation of **640.50 feet**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.309 MAF** (i.e. **69.16 % of 13.461 MAF**; reference **Annexure-I**). WAPDA Authorities both at Tarbela & Chashma and field formations of Punjab & Sindh Irrigation Departments are exercising utmost care and extra vigilance in the reservoir/ barrage operation for effective flood routing.

Prevalent Meteorological Situation (Source: FFD, Lahore):

6. Trough of Westerly Wave earlier over Kashmir and adjoining areas has now moved away Eastwards. A fresh trough of **Westerly Wave** lies over Northern parts of Afghanistan with **Weak Seasonal Low** continues to prevail over Western Balochistan. **Weak Moist** currents from the Arabian Sea are penetrating into Northeastern Punjab (Pakistan) up to 3000 feet.

Weather & Rainfall Forecast (Next 24 hours):

7. According to FFD, Lahore, mainly dry weather is expected over most parts of the country, however isolated thunderstorm/rain is expected over **Punjab (D.G. Khan, Rawalpindi, Gujranwala & Lahore Divisions)**, **Khyber Pakhtunkhwa (D.I. Khan Division)**, **Southeastern Sindh** and **Northeastern Balochistan** including upper catchments of all the Major Rivers of Indus River System.

8. **Very High and above Level Flooding** is likely to continue in **River Kabul** at **Nowshera** during next 24 hours (Ref: FFD, Lahore Bulletin No. A-076/22). Significant rainfall events reported by FFD, Lahore during the past 24 hours are at **Annexure-II**.

Continued Precautionary Measures By Concerned Organizations:

9. 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:

10. 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 Very High Flows of River Kabul at Nowshera.

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 Very High Flood Flows generated in River Kabul**) 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 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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5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
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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 29-08-2022

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 29, 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	197,000	156,000	255,000	269,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	173,000	166,000	411,000	407,000	Med Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	178,000	163,000	525,000	519,000	High Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	146,000	126,000	567,000	567,000	High Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	96,000	70,000	501,000	501,000	High Flood (S)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	67,000	26,000	531,000	531,000	High Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	29,000	NIL	338,000	337,000	Med Flood (R)	650,000
River Kabul									
• Warsak	540,000				20,000		91,000	Med Flood (F)	200,000
• Nowshera		450,000	29-07-2010		18,000		299,000	V. High Flood (F)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		31,000	Low Flood (F)	150,000
• Munda(H. Works)		355,000	29-07-2010		2,000		44,000	Low Flood (F)	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		45,000	Low Flood (F)	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	21,000	28,000	42,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	19,000	NIL	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	57,000	21,000	60,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	32,000	24,000	42,000	35,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	36,000	14,000	41,000	21,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	24,000	8,000	51,000	39,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	58,000	51,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		4,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	33,000	4,000	36,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	22,000	8,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	17,000	3,000	20,000	9,000	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	1546.48	1550.00	5.827	5.681	5.827	100 %
Chashma	649.00	638.15	640.70	642.60	640.50	0.278	0.070	0.070	25.18 %
Mangla	1242.00	1050.00	1242.00	1199.80	1184.30	7.356	4.316	3.412	46.38 %
Total Live Storage						13.461	10.067	9.309	69.16 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	27.0 °C	27.5 °C	+ 0.5 °C
Minimum	12.3 °C	15.2 °C	+ 2.9 °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.	Lahore	124
2.	Murree	14
3.	Ravi Syphon	07
B	Khyber Pakhtunkhwa	
4.	Kakul	51
5.	Oghi	23
6.	Babusar & Shinkiari	13 each
C	Gilgit-Baltistan	
7.	Bagrote, Gilgit & Chilas	07 each
D	AJ&K	
8.	Rawalakot	27
9.	Bandi Abbaspur	08
Source: FFD, Lahore (Phone No. 042 99200139)		