



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 SEPTEMBER 08, 2022

Rivers Hydrological Situation:

River Indus continues to flow in “**High Flood**” at **Kotri Barrage** (the last control structure on River Indus before Arabian Sea) whereas it is in “**Low Flood**” at **Sukkur Barrage**. It is flowing with “**Normal Flows**” at rest of its control structures (**Tarbela, Kalabagh, Chashma, Taunsa & Guddu**) alongwith other main Rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej). Main rivers inflows/outflows at important control structures at 0600 hours today may be seen at **Annexure-I**.

Reservoirs Storage Position:

2. **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level of 1550.00 feet** since **August 28, 2022**. At present, water level in **Mangla Dam** is **1191.00 feet** against its **MCL: 1242 feet (48.50 % storage still left)**. **Chashma Reservoir** is also being maintained at **648.60 feet (against MCL: 649.00 feet)** since **2nd September 2022**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.873 MAF (i.e. 73.35 % of 13.461 MAF)**. WAPDA Authorities and field formations of Sindh Irrigation Department are continuing with their strict vigilance in the reservoir/barrage operations for continued effective river flood management.

Prevalent Meteorological Situation:

3. According to FFD, Lahore, a fresh trough of “**Westerly Wave**” lies over Northern parts of Iran with “**Weak Seasonal Low**” continues to prevail over Balochistan. **Light Moist Currents** from Bay of Bengal are penetrating into upper parts of Pakistan up to 3000 feet at the reporting time today.

Next 24 hours Weather & Rainfall Forecast:

4. FFD, Lahore has predicted mainly dry weather over most parts of the country with **Isolated thunderstorm/rain** over upper catchments of all the Major Rivers of Indus River System during the next 24 hours. No significant rainfall event has been reported by FFD, Lahore during the past 24 hours except for Khyber Pakhtunkhwa (Cherat = 11 mm & Tirah Khyber = 05 mm).

Weather Outlook & Flood Forecast from 9th to 15th September 2022:

5. As per FFD, Lahore, a fresh **Wet Spell** of **Light to Moderate Intensity** is likely to start over upper catchments of all the Major Rivers from **10th to 14th September 2022**. **River Indus** is likely to remain in “**High Flood**” at **Kotri Barrage**.

Continued Precautionary Measures By Concerned Organizations:

6. All concerned organizations including field formations of Irrigation Department Sindh are continuing with their unhalted watch and patrolling of flood embankments especially those which are sustaining high water pressure. Prompt flood fighting as and when needed to protect flood protection infrastructures is also being exercised. Further they are advised to remain on “High Alert”, take all necessary precautionary measures as per their respective flood fighting and Contingency Plans.

7. **Managers of major reservoirs/barrages, in particular of Kotri Barrage are advised to continue with present river Indus flood discharge management for effective flood routing.**

8. O/o Pakistan Commissioner for Indus Water (PCIW) is to ensure availability of more latest **Flood/ Base Flow Data on Indian Structures/ Reservoirs on Rivers Sutlej, Beas and Ravi** as these structures are approaching close to their Maximum Conservation Levels (MCLs) as the monsoon season is still ongoing.

9. All concerned organizations including **PDMAs/DDMAs** are also advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

10. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country and is keeping all concerned fully informed through FFD, Lahore.


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Distribution:

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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.
8. Secretary, Ministry of National Food Security & Research, 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.
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21. Chief Secretary, Government of Sindh, Karachi.
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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.

Distribution:

36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
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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.

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions September 08, 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	111,000	159,000	153,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	174,000	167,000	167,000	159,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	164,000	198,000	180,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	155,000	136,000	199,000	183,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	116,000	85,000	193,000	186,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	69,000	22,000	273,000	273,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	29,000	NIL	604,000	584,000	High Flood (S)	650,000
River Kabul									
• Warsak	540,000				16,000		22,000	Normal	200,000
• Nowshera		450,000	29-07-2010		15,000		44,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		10,000		10,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		2,000		12,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		12,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	30,000	36,000	25,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	30,000	8,000	4,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	30,000	5,000	42,000	12,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	7,000	NIL	15,000	7,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	17,000	NIL	17,000	NIL	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	28,000	12,000	30,000	14,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	11,000	NIL	22,000	9,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		18,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	29,000	NIL	39,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	NIL	21,000	4,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	1,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	2,000	1,000	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	1534.05	1550.00	5.827	4.984	5.827	100 %
Chashma	649.00	638.15	643.90	645.00	648.60	0.278	0.125	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1192.90	1191.00	7.356	3.902	3.788	51.50 %
Total Live Storage						13.461	9.011	9.873	73.35 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	31.6 °C	32.0 °C	+ 0.4 °C
Minimum	13.4 °C	11.3 °C	- 2.1 °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"

