



**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
WEDNESDAY AUGUST 31, 2022**

Rivers Hydrological situation:

River Indus in **Taunsa–Guddu-Sukkur Reaches** is presently experiencing “**High Flood**” with “**Medium Flood**” at **Chashma & Kotri** and in “**Low Flood**” at **Kalabagh**. Flood flow in **River Kabul** (a tributary of River Indus) at **Nowshera** has receded considerably from “**Very High Flood**” to “**High Flood**” and is continuously receding. **Kabul** at **Nowshera** is discharging **104,000 cusecs (High Flood)** at 1000 hours today and is in “**Low Flood**” at **Warsak** (upstream Nowshera).

2. 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:

3. **Tarbela Reservoir** Management authorities are maintaining it at its **Maximum Conservation Level (MCL)** of **1550.00 feet** since **28th August 2022**, whereas **Mangla Dam** is at **El: 1186.15 feet** against its **MCL: 1242 feet (52.23 % storage still left)**. **Chashma Reservoir** is at an Elevation of **642.00 feet**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.399 MAF** (i.e. **69.82 % of 13.461 MAF**). (**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 and for the overall protection of flood embankments.

Prevalent Meteorological Situation (Source: FFD, Lahore):

4. Trough of **Westerly Wave** earlier over Northeastern parts of Afghanistan today lies over Northern parts of Pakistan, however it has become weak, while **Weak Seasonal Low** lies over Northeastern Balochistan. At present, **Weak Moist currents** from Arabian Sea are penetrating into central parts of Pakistan upto 3000 feet.

Weather & Rainfall Forecast (Next 24 hours):

5. Mainly dry weather has been predicted by FFD, Lahore over most parts of the country, however isolated thunderstorm/rain is expected over **Islamabad, 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.


6. According to FFD, Lahore, **Medium to High Level Flooding** is likely to continue in **River Indus** (downstream Kalabagh) from **1st to 7th September 2022**. No significant rainfall events has been reported by FFD, Lahore during the past 24 hours except for Punjab (G.S Wala=15 mm) and AJ&K (Hajira=20 mm & Bandi Abbaspur=15 mm).

Continued Precautionary Measures By Concerned Organizations:

7. All concerned organizations including field formations of **Irrigation Departments Punjab, Khyber Pakhtunkhwa and Sindh** are strictly advised to ensure unhalted watch and patrolling of flood embankments especially those which are sustaining high water pressure and ensure prompt flood fighting as and when needed to protect flood protection infrastructures. Further to remain on “**High Alert**”, take all necessary precautionary measures as per their respective flood fighting and Contingency Plans.

Specific Directions For Dam/Reservoir/Barrages Management Organizations:

8. Managers of major reservoirs (**Tarbela & Chashma**) and barrages, in particular of **Taunsa, Guddu & Sukkur** are advised to continue with present reservoir management measures for effective flood routing downstream keeping in view the upstream High Flows.
9. Further to above, 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.
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 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.
11. 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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5. Secretary, Ministry of Water Resources, 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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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.

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Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 31, 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	144,000	95,000	194,000	211,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	160,000	153,000	304,000	299,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	179,000	164,000	463,000	445,000	Med Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	158,000	138,000	603,000	603,000	High Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	111,000	84,000	519,000	519,000	High Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	68,000	27,000	530,000	530,000	High Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	27,000	NIL	380,000	377,000	Med Flood (R)	650,000
River Kabul									
• Warsak	540,000				20,000		48,000	Low Flood (R)	200,000
• Nowshera		450,000	29-07-2010		22,000		117,000	High Flood (F)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		20,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		3,000		21,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		5,000		20,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	14,000	30,000	32,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	29,000	8,000	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	44,000	9,000	61,000	33,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	11,000	4,000	39,000	31,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	25,000	3,000	38,000	18,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	30,000	14,000	41,000	29,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	12,000	NIL	42,000	32,000	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	5,000	36,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	22,000	7,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	19,000	7,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	8,000	6,000	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	1548.88	1550.00	5.827	5.818	5.827	100 %
Chashma	649.00	638.15	639.00	643.80	642.00	0.278	0.096	0.058	20.86 %
Mangla	1242.00	1050.00	1241.15	1198.70	1186.15	7.356	4.250	3.514	47.77 %
Total Live Storage						13.461	10.164	9.399	69.82 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ /-)
Maximum	26.3 °C	27.6 °C	+ 1.3 °C
Minimum	14.5 °C	12.1 °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"