



**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
SUNDAY, SEPTEMBER 01, 2024**

Presently, **River Indus** is experiencing **Low Flood** at Chashma and in **Medium Flood** at Kotri Barrage (the last control structure before the Arabian Sea). The rest of major rivers in the Indus River System (i.e. Rivers Jhelum, Chenab, Ravi, and Sutlej) are discharging normal flows. **Annexure-I** depicts detailed information on inflows/ outflows of these rivers, major reservoirs storage positions and temperature data at Skardu.

2. Tarbela Reservoir is maintaining its Maximum Conservation Level (MCL) of **1550.00 feet** since last 13 days. In contrast, Mangla Reservoir is currently at an elevation of **1222.05 feet**, which is **19.95 feet** below its MCL i.e. 1242 feet. Combined live storage of the country's major reservoirs (Tarbela, Chashma & Mangla) stands at **11.803 MAF (88.39%** of the total storage capacity of **13.354 MAF)**. Tarbela Dam Management is advised to exercise utmost caution in regulating the reservoir, ensuring strict adherence to approved SOPs and Dam Safety Guidelines to protect downstream areas.

3. According to the FFD, Lahore, Cyclonic Storm (CS) "ASNA" today lies in Arabian Sea at approximately 240 km South of Gwadar and is likely to become insignificant for Pakistan. Yesterday's trough of Westerly Wave over Northeastern Iran today lies over Northern parts of Afghanistan. Light moist currents from the Bay of Bengal are penetrating into the upper parts of Pakistan. However, it will become moderate during next two days. Yesterday's well-marked low over Southeastern Odisha (India) today lies over Southern Odisha (India) and adjoining Andhra Pradesh (India). Weak Seasonal Low lies over Northern Balochistan.

Weather Forecast for 24-hours:

4. FFD Lahore has predicted, **Scattered Thunderstorm Rain** over **Khyber-Pakhtunkhwa** (Peshawar, Kohat & Bannu Division), **Balochistan** (Zhub & Makran Division) along with upper catchments of river Kabul. **Isolated Thunderstorm Rain** of **moderate intensity** is expected over the upper catchments of all the other major rivers. Few rainfall event has been experienced during past 24 hours in Sindh (Thatta=20 mm & Karachi =07 mm) and Balochistan (Ormara=12 mm & Pasni=06 mm).

Next 48 Hours Outlook (Source: FFD, Lahore):

5. A fresh spell of **Moderate Rainfall**, with **Isolated Heavy Showers**, Islamabad, Punjab and Khyber Pakhtunkhwa along with upper catchments of all the major rivers. No Significant increase is expected in any of the major rivers of Indus River System.

6. **All Relevant Organizations are advised to remain Fully Alert and Vigilant** and to take prompt action in response to warnings issued by the relevant authorities to ensure the safety of communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

7. PMD, Islamabad through its specialized Flood Forecasting Unit (FFD, Lahore) is closely monitoring the prevailing weather system and is keeping all concerned organizations fully cognizant of the situation.

(Muhammad Hanif Chachar)
Principal River Engineer
For, Chairman, Federal Flood Commission

Distribution:

1. Chairman, Senate Standing Committee on Water Resources, Parliament House, Islamabad
2. Minister for Water Resources, Islamabad.
3. Minister for Planning, Development & Special Initiatives, Islamabad.

Distribution:

4. Minister for Climate Change & Environmental Coordination, Islamabad.
5. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
6. Secretary, Ministry of Water Resources, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
8. Secretary, Ministry of Climate Change & Environmental Coordination, Islamabad.
9. Secretary, Ministry of National Food Security & Research, Islamabad.
10. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
11. Secretary, Senate Standing Committee on Water Resources, Parliament House, Islamabad.
12. Chairman, National Disaster Management Authority, Islamabad.
13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chief Executive Officer, Pakistan Railways, Lahore.
15. Chairman, Indus River System Authority, Islamabad.
16. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
17. Chairman, National Highway Authority, Islamabad.
18. Director General, Pakistan Meteorological Department, Islamabad.
19. Member (Water), WAPDA, WAPDA House, Lahore.
20. Member (Infrastructure), Planning Commission, Islamabad.
21. Chief Secretary, Government of the Punjab, Lahore.
22. Chief Secretary, Government of Sindh, Karachi.
23. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
24. Chief Secretary, Government of Balochistan, Quetta.
25. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
26. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
27. Secretary, Irrigation Department, Government of the Punjab, Lahore.
28. Secretary, Irrigation Department, Government of Sindh, Karachi
29. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar
30. Secretary, Irrigation Department, Government of Balochistan, Quetta.
31. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
32. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
33. Chief Engineer (Merged Areas), Irrigation Department, Government of K.P, Peshawar.
34. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
35. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
36. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
37. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
39. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
40. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
41. Director General, Gilgit Baltistan Disaster Management Authority, Gilgit.
42. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
43. Chief Commissioner, ICT, Islamabad.
44. Chairman, Capital Development Authority, Islamabad.
45. Commissioner, Rawalpindi.
46. Managing Director, WASA, Rawalpindi.
47. Principal Information Officer, Press Information Department, Islamabad.
48. Director (News), Associated Press of Pakistan, Islamabad.
49. Director (News), Pakistan Television, Islamabad.
50. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
51. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2024, dated 01-09-2024

Rivers and Reservoir Positions September 01, 2024 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	116,000	87,000	180,000	156,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	137,000	129,000	206,000	202,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	140,000	122,000	274,000	250,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	134,000	212,000	192,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	296,000	265,000	211,000	197,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	275,000	221,000	182,000	171,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	149,000	108,000	337,000	336,000	Med Flood (S)	650,000
River Kabul									
• Warsak	540,000				16,000		20,000	Normal	200,000
• Nowshera					24,000		32,000	Normal	200,000
River Swat									
• Chakdara Bridge					6,000		6,000	Normal	150,000
• Munda(H. Works)					4,000		14,000	Normal	150,000
• Charsadda Road	150,000				4,000		12,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	17,000	17,000	52,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	13,000	5,000	9,000	8,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	46,000	15,000	52,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	16,000	7,000	53,000	46,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	14,000	NIL	62,000	44,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	41,000	26,000	37,000	27,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	103,000	86,000	50,000	43,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		5,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		23,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	9,000	50,000	27,000	Normal	135,000
• Sidhmai	150,000	330,210	02-10-1988	22,000	4,000	30,000	22,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	82,000	68,000	16,000	8,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	77,000	75,000	9,000	8,000	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)
			2022	2023	2024	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1550.00	1550.00	1550.00	5.766	5.809	5.766	100 %
Chashma	649.00	638.15	644.30	647.70	648.50	0.311	0.215	0.285	91.64 %
Mangla	1242.00	1050.00	1186.80	1242.00	1222.05	7.277	7.356	5.752	79.04 %
Total Live Storage						13.354	13.380	11.803	88.39 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	30.6 °C	24.5 °C	- 6.1 °C
Minimum	12.4 °C	14.2 °C	+ 1.8 °C

NOTE-1: "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 freeboard

NOTE-2: "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

NOTE-3: * Flood Classification: (applied on downstream discharge/Outflow)

* (R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours.

NOTE-4: Maximum Live Storage Capacity has increased from 13.321 MAF to 13.354 MAF due to de-silting of Chashma Barrage causing increase in its Live Storage Capacity from 0.278 MAF to 0.311 MAF.