



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
WEDNESDAY, AUGUST 14, 2024

Presently, **River Indus** is experiencing **Medium Flood** in **Guddu-Sukkur Reach** whereas it is in **Low Flood** at **Tarbela-Kalabagh-Chashma-Taunsa reaches** and also **River Kabul** is flowing in **Low Flood** at **Warsak**. All other major rivers of the Indus River System i.e. Rivers Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. Detailed information on the Inflows/ Outflows of major rivers at important control structures, water levels and storage position of reservoirs alongwith the temperature at Skardu is provided in **Annexure-I**.

2. The current Combined Live Storage of the country's major reservoirs (Tarbela, Mangla & Chashma) stands at **10.573 MAF (79.17%** of the total live storage capacity of **13.354 MAF)**. **Tarbela Reservoir** has attained water level of **1547.00 feet (3.00 feet** below against its Maximum Conservation Level (MCL) of **1550 feet)** whereas **Mangla Reservoir** is at an elevation of **1210.90 feet (31.10 feet** below its **MCL of 1242.00 feet)**. ***In view of higher water level, Tarbela Dam Management is advised to remain vigilant and ensure filling of reservoir as per approved SOPs and dam safety guidelines.***

3. According to the FFD, Lahore, yesterday's trough of Strong Westerly Wave over northwestern Iran today lies over Northern parts of Iran and yesterday's upper air cyclonic circulation over Northeastern Rajasthan (India) moved slightly westwards, however it continues to prevail over Northeastern Rajasthan (India). Light to Moderate Moist currents are penetrating into most parts of Pakistan from Arabian Sea and Bay of Bengal up to 5,000 feet. Seasonal Low lies over Northern Balochistan.

4. For the next 24 hours, FFD, Lahore has predicted scattered thunderstorm rain of **Moderate Intensity** over the Upper Catchments of all the major rivers. Isolated Thunderstorm rain of **Moderate Intensity** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & DG Khan Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & DI Khan Divisions)** and **Balochistan (Zhob, Sibbi, Nasirabad & Kalat Divisions)**. No significant rainfall events reported during the past 24 hours.

Extended Weather Outlook (15th to 17th August 2024)

5. FFD, Lahore has predicted as follows:

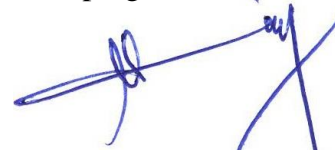
- Scattered Thunderstorm rain of **Moderate Intensity** with isolated **Heavy Falls** over **Punjab (Faisalabad, Sahiwal, Multan & Bahawalpur Divisions)**, Sindh and **Balochistan (Zhob, Nasirabad, Sibbi & Kalat Divisions)**.
- Widespread Thunderstorm rain of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** over the **Islamabad, Punjab (Rawalpindi & Gujranwala Divisions)** and **Khyber Pakhtunkhwa** including **Upper Catchments of Rivers Indus and Jhelum**.
- Scattered to Widespread Thunderstorm rain of **Moderate Intensity** with isolated **Heavy to Very Heavy falls** over the **Punjab (Sargodha, Lahore & DG Khan Divisions)** including **Upper Catchments of Rivers Chenab, Ravi and Sutlej**.

Above Met Conditions may result into flood situation between 15th to 17th August 2024 is given as under;

- **Medium to High level flows in River Jhelum at Mangla Upstream and River Chenab at Marala, Khanki and Qadirabad** including Nullahs in the catchments of **Rivers Chenab and Ravi**.
- **Low to Medium level flows in River Kabul at Nowshera, River Indus at Tarbela** including Hill Torrents in **DG Khan Division** and Nullahs in **Balochistan (Sibbi, Nasirabad, Zhob & Kalat Divisions)**.

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 safety of the communities residing in low lying areas, as well as to protect public and private properties, irrigation & drainage network and flood protection structures.

7. Pakistan Meteorological Department (PMD), Islamabad, through its nation-wide specialized Flood Forecasting Unit (FFD Lahore), is monitoring the present weather system on round-the-clock basis and keeping all relevant organizations fully cognizant of the developing situation.



(M. 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
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.

Distribution:

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 14-08-2024

Rivers and Reservoir Positions August 14, 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	221,000	255,000	270,000	255,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	257,000	249,000	299,000	291,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	270,000	249,000	323,000	308,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	179,000	161,000	344,000	318,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	283,000	252,000	422,000	392,000	Med Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	245,000	190,000	393,000	351,000	Med Flood (S)	700,000
• Kotri	875,000	981,000	14-8-1956	184,000	143,000	189,000	149,000	Normal	650,000
River Kabul									
• Warsak	540,000				25,000		40,000	Low Flood (R)	200,000
• Nowshera					38,000		57,000	Normal	200,000
River Swat									
• Chakdara Bridge					13,000		8,000	Normal	150,000
• Munda(H. Works)					13,000		9,000	Normal	150,000
• Charsadda Road	150,000				13,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	29,000	10,000	22,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	4,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	79,000	49,000	65,000	47,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	55,000	46,000	62,000	54,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	46,000	36,000	54,000	36,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	61,000	48,000	68,000	55,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	77,000	61,000	49,000	36,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		25,000		9,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		30,000		18,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	42,000	19,000	53,000	24,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	27,000	9,000	20,000	8,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	51,000	38,000	17,000	6,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	37,000	34,000	6,000	5,000	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	1545.70	1549.05	1547.00	5.766	5.754	5.594	97.02 %
Chashma	649.00	638.15	642.00	647.00	639.00	0.311	0.188	0.012	3.86 %
Mangla	1242.00	1050.00	1169.50	1239.75	1210.90	7.277	7.174	4.967	68.26 %
Total Live Storage						13.354	13.116	10.573	79.17 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ /-)
Maximum	34.1 °C	37.4 °C	+ 3.3 °C
Minimum	15.4 °C	17.2 °C	+ 1.8 °C

NOTE-1: "Mild" Categories

Low Flood:

Medium Flood:

High Flood:

River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas

River partly inundating river islands/belas

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):

Exceptionally High Flood (EHF):

River flowing between high banks/bunds with encroachment on the freeboard

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.