



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
MONDAY, AUGUST 14, 2023

Tarbela reservoir had attained its Maximum Conservation Level (MCL) of **1550.00 feet** on **11th August 2023** and today it is at an elevation of **1549.05 feet** i.e. just **0.95 feet** below its MCL. **Mangla reservoir** is also approaching its MCL and at present it is at a level of **1239.75 feet** (i.e. **2.25 feet** below its MCL of **1242.00 feet**). Combined Live Storage of major reservoirs (Tarbela, Mangla & Chashma) is **13.116 MAF (97.57%** of maximum value of **13.443 MAF**). Managements of both Tarbela and Mangla reservoirs need to exercise extreme care in reservoir operation in accordance with the respective SOPs and dam safety guidelines.

2. **River Indus** is flowing in **Low Flood** at its two (02) control structures (**Tarbela & Guddu**), whereas all other major rivers of the Indus River System (IRS) are experiencing Normal Discharges. For inflows/ outflows of major rivers at specified locations including country's major reservoirs storage position at reporting time today, **Annexure-I** is referred.

3. Yesterday's trough of Westerly Wave continuous to prevail and today lies over Northern parts of the Pakistan. **Moderate Moist Currents** from Arabian Sea are penetrating to upper parts of Pakistan up to 5000 feet, while **Well-Marked Seasonal Low** continues to lie over Northeastern Balochistan.

4. According to FFD, Lahore, reservoirs in India at **Sutlej** and **Beas Rivers** are near to attain **Maximum Levels** (Bhakra 6 feet below and Pong 4.5 feet below). In the presence of current meteorological situation, **Moderate to Heavy Rainfall** is expected over the Upper Catchments of **Rivers Sutlej and Beas** during the reporting period. Flows at **Ganda Singh Wala** and downstream are likely to increase subject to discharges from India.

5. For the next 24 hours, FFD, Lahore has predicted **Scattered to Widespread Thunderstorm/ Rain** of **Moderate Intensity** with **Isolated Heavy Falls** associated with gusty wind over the upper catchments of **River Sutlej, Ravi & Chenab** including **Islamabad and Punjab (Rawalpindi, Sargodha, Gujranwala & Lahore Divisions)**. **Scattered Wind Thunderstorm/ Rain** of **Moderate Intensity** with **Isolated Heavy Falls** is also expected over the upper catchments of **Rivers Indus, Kabul & Jhelum** including **Punjab (Sahiwal & Faisalabad Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)**. No Significant rainfalls events have been reported during past 24 hours by FFD, Lahore except for Punjab (Shakar Garh=7 mm), Khyber Pakhtunkhwa (Lower Dir=18 mm, Balakot=08 mm & Khawagoobo Bridge=07 mm) and AJ&K (Muzaffarabad=5 mm).

6. As per FFD, Lahore, Monsoon activity is likely to remain subdued during the upcoming week i.e. **15th to 21st August 2023**.

7. All concerned organizations are advised to remain **ALERT**, monitor the weather and flood situation regularly and ensure fool proof precautionary measures to avoid any loss of precious human lives and damage to public & private properties.

8. **In view of the fact that Indian reservoirs on Eastern Rivers, particularly Bhakra on River Sutlej and Pong on River Beas are just approaching their respective 100% live storage, O/O PCIW is advised to ensure round-the-clock monitoring of outflows from the above reservoirs together with FFD, Lahore to issue timely Significant Forecast so that relevant provincial and district authorities are able to take mandatory precautionary actions.**

9. Pakistan Meteorological Department (PMD), Islamabad through FFD, Lahore is monitoring the present weather system and is keeping all concerned fully cognizant of the situation.



(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
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.
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
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.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Secretary, Irrigation Department, Government of the Punjab, Lahore.
27. Secretary, Irrigation Department, Government of Sindh, Karachi
28. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
29. Secretary, Irrigation Department, Government of Balochistan, Quetta.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
32. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
33. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
34. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
35. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
36. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
37. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
38. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
39. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
40. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
41. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
42. Chief Commissioner, ICT, Islamabad.
43. Chairman, Capital Development Authority, Islamabad.
44. Commissioner, Rawalpindi.

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)/2023, dated 14-08-2023

Rivers and Reservoir Positions August 14, 2023 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	237,000	218,000	221,000	255,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	188,000	181,000	257,000	249,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	266,000	248,000	270,000	249,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	224,000	203,000	179,000	161,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	208,000	202,000	283,000	252,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	140,000	106,000	245,000	190,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	232,000	220,000	184,000	143,000	Normal	650,000
River Kabul									
• Warsak	540,000				29,000		25,000	Normal	200,000
• Nowshera					52,000		38,000	Normal	200,000
River Swat									
• Chakdara Bridge					14,000		13,000	Normal	150,000
• Munda(H. Works)					12,000		13,000	Normal	150,000
• Charsadda Road	150,000				11,000		13,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	30,000	10,000	29,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	6,000	NIL	3,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	61,000	44,000	79,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	77,000	71,000	55,000	46,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	102,000	83,000	46,000	36,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	113,000	104,000	61,000	48,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	40,000	32,000	77,000	61,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		11,000		25,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		12,000		30,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	43,000	18,000	42,000	19,000	Normal	135,000
• Sidhmai	150,000	330,210	02-10-1988	23,000	12,000	27,000	9,000	Normal	90,000
River Sutlej									
• G.S. Wala	325,000	598,872	08-10-1955	14,000	4,000	Gauge 18.20	43,000	Normal	175,000
• Suleimanki	332,000	492,581	11-10-1955	3,000	2,000	51,000	38,000	Normal	175,000
• Islam						37,000	34,000	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1542.03	1545.70	1549.05	5.809	5.581	5.754	99.05 %
Chashma	649.00	638.15	646.90	642.00	647.00	0.278	0.058	0.188	67.63 %
Mangla	1242.00	1050.00	1202.25	1169.50	1239.75	7.356	2.639	7.174	97.53 %
Total Live Storage						13.443	8.278	13.116	97.57 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+/-)
Maximum	33.6 °C	34.1 °C	+ 0.5 °C
Minimum	18.4 °C	15.4 °C	- 3.0 °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 freeboard

"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: (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.