



**Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission**

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**FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY, AUGUST 15, 2023**

Although **Tarbela reservoir** had filled upto its Maximum Conservation Level (MCL) of **1550.00 feet** on **11th August 2023**, however drawdown has been observed since **12th August 2023** by virtue of low inflows. Water Level in Tarbela reservoir at 0600 hour today is **1549.04 feet** which is just **0.96 feet** below its MCL.

2. In **Mangla reservoir** much healthier water storage has been achieved compared to last year (**7.242 MAF** of this year Vs **2.693** last year). At present water level is **1240.60 feet** (i.e. just **1.40 feet** below its MCL of **1242.00 feet**). Managements of both Tarbela and Mangla reservoirs need to remain extra vigilant and exercise extreme care in reservoir operations in accordance with the respective SOPs and dam safety guidelines.

3. Except for **River Indus** which is flowing in Mild Category Flood (**Low Flood**) at its two (02) control structures (**Tarbela & Guddu**), all other major rivers of the Indus River System i.e. Rivers Jhelum, Chenab, Ravi & Sutlej are discharging normal flows. For details of major rivers discharges (inflows/ outflows) at specified control structures, major reservoirs storage position besides Skardu Temperature, **Annexure-I** is referred.

4. Arabian Sea Seasonal Low presently lies over Balochistan and is resulting into generation of moderate moist currents which are penetrating into upper parts of Pakistan up to 5000 feet. As regards other weather system: Trough of Westerly Wave earlier over Northern parts of Pakistan, today lies over Kashmir and adjoining areas.

5. According to FFD, Lahore, reservoirs in India on **Eastern Rivers** i.e. **Bhakra Dam on River Sutlej** and **Pong Dam on River Beas** have attained their respective Maximum Conservation Levels, and there is a likelihood of **moderate rainfall activity** over the upper catchments of these rivers. Due to prevailing meteorological situation may result into increase in the flows at Ganda Singh Wala (1st Water Gauging Station at River Sutlej in Pakistan) and downstream, however, increase in flows are subject to water releases from India.

6. For the ensuing 24 hours, **Scattered Thunderstorm/Rain** of **Light to Moderate Intensity** with gusty winds have been predicated by FFD, Lahore over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Faisalabad & Sahiwal Divisions) and Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** including over upper catchments of all the major rivers of IRS. During the extended period of next 48 hours, wet-spell is likely to decrease further. Some good rainfall events have been experienced in Punjab, Khyber Pakhtunkhwa and AJ&K during the past 24 hours. Details may be seen at **Annexure-II**.

7. **In view of present storage of Indian reservoirs on Eastern Rivers, particularly Bhakra on River Sutlej and Pong on River Beas and considering the weather prediction by FFD, Lahore O/o PCIW is advised to ensure round-the-clock monitoring of outflows from the above reservoirs so that timely Significant Forecast by FFD, Lahore can be issued to the relevant provincial and district authorities to take mandatory precautionary actions.**

8. 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.

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.

Distribution:

4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
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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.
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12. Chief Executive Officer, Pakistan Railways, Lahore.
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14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
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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 15-08-2023

Rivers and Reservoir Positions August 15, 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	249,000	219,000	240,000	251,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	197,000	190,000	255,000	247,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	257,000	238,000	258,000	237,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	400,000	394,000	235,000	217,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	264,000	261,000	235,000	203,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	192,000	162,000	238,000	183,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	223,000	210,000	180,000	140,000	Normal	650,000
River Kabul									
• Warsak	540,000				32,000		27,000	Normal	200,000
• Nowshera					42,000		41,000	Normal	200,000
River Swat									
• Chakdara Bridge					14,000		12,000	Normal	150,000
• Munda(H. Works)					9,000		17,000	Normal	150,000
• Charsadda Road	150,000				9,000		15,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	70,000	10,000	38,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	7,000	NIL	8,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	90,000	72,000	95,000	65,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	76,000	69,000	66,000	58,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	65,000	46,000	52,000	42,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	122,000	113,000	61,000	48,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	40,000	31,000	77,000	61,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		8,000		24,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		9,000		31,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	35,000	9,000	42,000	19,000	Normal	135,000
• Sidhnaï	150,000	330,210	02-10-1988	21,000	9,000	29,000	11,000	Normal	90,000
River Sutlej									
• G.S. Wala	325,000	598,872	08-10-1955	14,000	3,000	Gauge 17.70	37,000	Normal	175,000
• Suleimanki	332,000	492,581	11-10-1955	2,000	1,000	46,000	32,000	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	1543.41	1546.70	1549.04	5.809	5.638	5.754	99.05 %
Chashma	649.00	638.15	647.20	642.00	647.00	0.278	0.058	0.188	67.63 %
Mangla	1242.00	1050.00	1202.50	1170.60	1240.60	7.356	2.693	7.242	98.45 %
Total Live Storage						13.443	8.389	13.184	98.07 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ /-)
Maximum	35.6 °C	32.7 °C	- 2.9 °C
Minimum	18.5 °C	14.3 °C	- 4.2 °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.

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Islamabad	68
2.	Daulatnagar & Sialkot	46 each
3.	Chakwal	40
4.	Kamra	35
5.	Kallar	23
6.	Mangla	22
7.	Narowal	14
8.	Gujranwala & Gujrat	11 each
9.	Attock	10
10.	Jhelum	09
11.	Murree & Kotnaina	08 each
B	Khyber Pakhtunkhwa	
12.	Risalpur	64
13.	Lower Dir	54
14.	Pashat-Bajaur	27
15.	Dir	25
16.	Cherat	16
17.	Tarbela	13
18.	Daggar & Landi Kotal	09 each
19.	Besham & Shinkiari	08 each
20.	Kakul	06
C	Sindh	
21.	Mirkhani	05
D	AJ&K	
22.	Palandri	43
23.	Kotli	33
24.	Rawalakot & Garhi Dopatta	26 each
25.	Barnala	16
26.	Bandi Abbaspur & Rohtas	06 each
<i>Source: FFD, Lahore (042-99200139)</i>		