



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY, AUGUST 13, 2024

At present, River Indus is experiencing "Medium Flood" in Guddu-Sukkur reach and "Low Flood" between Tarbela-Chashma reach. Also, the Kabul River is flowing in "Low Flood" at Nowshera. All other major rivers of the Indus River System i.e. Jhelum, Chenab, Ravi and Sutlej are discharging normal flows. Detailed information on the river flow situation and reservoir storage at 0600 hours today may be seen at Annexure-I.

2. The combined live storage of the country's major reservoirs (Tarbela, Chashma & Mangla) stands at 10.542 MAF which is 78.94% of the total available live storage capacity of 13.354 MAF. Tarbela Reservoir is approaching its Maximum Conservation Level (MCL) and presently at 1546.00 feet (just 4.00 feet below the MCL of 1550.00 feet). Tarbela Dam Management is advised to regulate the reservoir according to approved SOPs and strictly in accordance with Dam Safety Guidelines.

3. According to the FFD, Lahore, yesterday's Upper Air Cyclonic Circulation over North Madhya Pradesh (India) has moved North-Westward and today lies over Northeastern Rajasthan and adjoining Uttar Pradesh (India). A fresh trough of Strong Westerly Wave is prevailing over Northwestern Iran while Seasonal Low lies over Northern Balochistan. Moderate moist currents from both the Arabian Sea and Bay of Bengal were penetrating into most parts of Pakistan up to 3000 feet at the reporting time today.

4. Isolated thunderstorm rain of Moderate Intensity is expected over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Bahawalpur & D.G. Khan Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions), and Balochistan (Zhob, Sibbi, Nasirabad & Kalat Divisions) including upper catchments of all major rivers of IRS (Source: FFD Lahore).

5. No significant rainfall activity has been reported during the past 24 hours except for Punjab (Bahawalpur = 88 mm, D.G.Khan=29 mm & Multan = 26 mm) and Balochistan (Ziarat = 46 mm & Kalat=06 mm).

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

6. FFD, Lahore has predicated as follows:

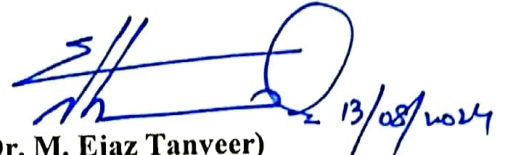
- Scattered thunderstorm rain of Moderate Intensity with isolated Heavy Falls over Punjab (Faisalabad, Sahiwal, Multan & Bahawalpur Divisions), Sindh and Balochistan (Zhob, Nasirabad, Sibbi & Kalat Divisions).
- Widespread thunderstorm rain of Moderate to Heavy Intensity with Scattered Very Heavy Falls over Islamabad, Punjab (Rawalpindi & Gujranwala Divisions) and Khyber Pakhtunkhwa including upper catchments of rivers Indus & Jhelum.
- Scattered to Widespread thunderstorm rain of Moderate Intensity with isolated Heavy to Very Heavy Falls over Punjab (Sargodha, Lahore & D.G.Khan Divisions) including upper catchments of rivers Chenab, Ravi and Sutlej.

7. Above Met Conditions may result into flood situation between 15th August to 17th August 2024 as given below:

- **Medium to High flows** in river Jhelum at Mangla (Upstream) and river Chenab at Marala, Khanki and Qadirabad Barrages including Nullahs in the catchments of rivers Chenab and Ravi.
- **Low to Medium flows** in river Kabul at Nowshera and in river Indus at Tarbela.

8. All relevant organizations are advised to remain on **ALERT** and **VIGILANT**, take prompt action in response to warnings issued from the relevant authorities. This is essential to ensure the safety of communities especially in low lying areas and to protect public and private properties, as well as irrigation and drainage networks and flood protection structures.

9. Pakistan Meteorological Department (PMD), Islamabad, is continuously monitoring the current weather system through its Specialized Flood Forecasting Unit (FFD Lahore) and is keeping all relevant organizations fully informed of the situation.



(Dr. M. Ejaz Tanveer)
Chief Engineer Floods

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.
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.

Distribution:

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 13-08-2024

Rivers and Reservoir Positions August 13, 2024 at 0600 Hours

(Discharge in Cusecs)

A. River Flow Situation:

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	229,000	256,000	288,000	254,000	Low Flood (S)	650,000
• Kalabagh	950,000	950,000	14-7-1942	251,000	243,000	313,000	305,000	Low Flood (F)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	290,000	268,000	374,000	357,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	205,000	187,000	243,000	227,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	283,000	251,000	428,000	398,000	Med Flood (F)	700,000
• Sakkar	900,000	1,161,000	16-8-1976	241,000	187,000	392,000	351,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	184,000	143,000	184,000	144,000	Normal	650,000
River Kabul									
• Warsak	540,000				28,000		34,000	Normal	200,000
• Nowshera					39,000		63,000	Low Flood (F)	200,000
River Swat									
• Chakdara Bridge					11,000		8,000	Normal	150,000
• Munda (H. Works)					12,000		13,000	Normal	150,000
• Charsadda Road	150,000				12,000		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	69,000	52,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	50,000	42,000	76,000	68,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	43,000	33,000	77,000	59,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	56,000	42,000	70,000	57,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	77,000	61,000	43,000	30,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		15,000		17,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		31,000		25,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	42,000	19,000	41,000	13,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	25,000	8,000	24,000	12,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	56,000	43,000	18,000	6,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	38,000	36,000	6,000	5,000	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Feet-AMSL)	Minimum Operating Level (Feet-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	1544.70	1549.09	1546.00	5.766	5.757	5.536	96.01 %
Chashma	649.00	638.15	642.00	647.00	642.00	0.311	0.188	0.063	20.26 %
Mangla	1242.00	1050.00	1168.80	1239.25	1210.55	7.277	7.135	4.943	67.93 %
Total Live Storage						13.354	13.080	10.542	78.94 %

C. Skardu Temperature:

Skardu Temperature	Last year 2023	Today 2024	Difference (+ / -)
Maximum	32.6 °C	35.6 °C	+ 3.0 °C
Minimum	14.2 °C	16.3 °C	+ 2.1 °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.