



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, AUGUST 18, 2024

River Indus at the reporting time today is flowing in “**Medium Flood**” in **Guddu-Sukkur** reach and “**Low Flood**” between **Tarbela-Taunsa** reach. Also, the Kabul River is flowing in “**Low Flood**” at **Nowshera**. Other main rivers (Jhelum, Chenab, Ravi & Sutlej including River Indus at Kotri Barrage) are flowing in Normal Flow condition. Detailed information on inflows/outflows at specified control structures, the storage position of major reservoirs and the temperature at Skardu is provided in **Annexure-I**.

2. The combined live storage of the country's major reservoirs (Tarbela, Chashma & Mangla) stands at **10.927 MAF** which is **81.83%** of the total available live storage capacity of **13.354 MAF**. Tarbela Reservoir is approaching its Maximum Conservation Level (MCL) and presently at **1549.30 feet** (just **0.70 feet** below the MCL of **1550.00 feet**). Tarbela Dam Management is advised to remain vigilant and regulate the reservoir according to approved SOPs and strictly in accordance with Dam Safety Guidelines.

3. Yesterday's well-marked low-pressure system over the Bahawalpur Division has since weakened into a low-pressure area, now centered near the Larkana district. Trough of strong Westerly Wave that developed yesterday persists over the Northern Afghanistan and is expected to impact the upper catchments of rivers Indus, Jhelum and Kabul. Also, moderate to strong moist currents are penetrating into Sindh, Southern Punjab and adjoining areas of Balochistan from the Arabian Sea upto 7000 feet, whereas light to moderate moist currents continue to influence upper parts of Pakistan upto 5000 feet. Further, a fresh **WELL-MARKED** Low pressure area has developed over North Bay of Bengal and adjoining Bangladesh. Seasonal Low lies over Northwestern Balochistan (**Source: FFD, Lahore**).

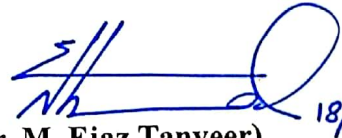
4. For the next 24 hours, FFD, Lahore has predicted scattered thunderstorm rain of Moderate Intensity with isolated **Heavy falls** over **Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Faisalabad, Sahiwal, Multan & Bahawalpur Divisions), Khyber Pakhtunkhwa, Sindh (Mirpur Khas) and Balochistan (Quetta)** including the upper catchments of all major rivers of IRS. Widespread thunderstorm rain of **Moderate to Heavy** intensity with scattered **Very Heavy** and Isolated **Extremely Heavy Falls** may occur over **Punjab (D.G. Khan Division) and Balochistan (Zhob, Nasirabad, Loralai, Sibbi, Kalat and Makran Divisions)** during the same period. As a result of these conditions, **High to Very High Level Flash Flooding** is anticipated in the hill torrents of **D.G. Khan Division (Punjab)** and the Nullahs of **Balochistan (Sibbi, Nasirabad, Loralai, Zhob & Kalat Divisions)** over the next 36 hours. Additionally, **High Level flash flooding** is expected in **Sind {Larkana (Jacobabad & Qambar Shahdadkot districts) and Hyderabad (Dadu & Jamshoro Districts) Divisions}** during the same period.

5. Punjab, Sindh, KP and AJ&K have experienced appreciable rains during the past 24 hours. Details are provided at **Annexure-II**.

6. The current wet spell is expected to subside in the Southern parts of the country **after the next 36 hours**. However, a new wet spell of moderate intensity with **isolated Heavy Falls** is forecasted to begin on **20<sup>th</sup> August 2024**. This will affect **Islamabad, Punjab (Rawalpindi, Sargodha & D.G. Khan Divisions) and Khyber Pakhtunkhwa** including the upper catchments of rivers Indus, Jhelum & Kabul of IRS. Additionally, **moderate rainfall** is expected over **Punjab (Gujranwala & Lahore Divisions)** including the upper catchments of rivers Chenab, Ravi and Sutlej during the same period.

7. All concerned organizations are strictly advised to remain **Fully Alert and Vigilant** and to take prompt action in response to warnings issued by the relevant authorities (**especially in the context of flood generating hill torrents in the areas of forecast**) 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.

8. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over Pakistan and is keeping all concerned fully informed through FFD, Lahore.



18/08/2024

(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.

**Distribution:**

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 18-08-2024**

**Rivers and Reservoir Positions**  
**August 18, 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
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	208,000	146,000	284,000	269,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	257,000	249,000	354,000	349,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	252,000	231,000	356,000	340,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	240,000	221,000	370,000	354,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	255,000	226,000	390,000	390,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	186,000	133,000	384,000	373,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	168,000	128,000	221,000	188,000	Normal	650,000
<b>River Kabul</b>									
• Warsak	540,000				27,000		36,000	Normal	200,000
• Nowshera					35,000		76,000	Low Flood (R)	200,000
<b>River Swat</b>									
• Chakdara Bridge					11,000		8,000	Normal	150,000
• Munda (H. Works)					11,000		15,000	Normal	150,000
• Charsadda Road	150,000				11,000		15,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	24,000	25,000	25,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	11,000	8,000	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	64,000	44,000	71,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	57,000	49,000	66,000	58,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	46,000	36,000	58,000	41,000	Normal	400,000
• Trimnu	875,000	943,225	08-7-1959	73,000	60,000	76,000	67,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	71,000	55,000	56,000	56,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		27,000		11,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		28,000		23,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	47,000	29,000	56,000	30,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	32,000	14,000	26,000	20,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	63,635	49,918	18,000	10,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	32,000	30,000	10,000	10,000	Normal	175,000

**B. Reservoir Storage Position:**

Reservoir	Maximum Conservation Level (FL-AMSL)	Minimum Operating Level (FL-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	1548.70	1549.60	1549.30	5.766	5.786	5.726	99.31 %
Chashma	649.00	638.15	640.50	649.00	642.00	0.311	0.278	0.063	20.26 %
Mangla	1242.00	1050.00	1173.90	1242.00	1213.35	7.277	7.356	5.138	70.61 %
<b>Total Live Storage</b>						<b>13.354</b>	<b>13.420</b>	<b>10.927</b>	<b>81.83 %</b>

**C. Skardu Temperature:**

Skardu Temperature	Last year 2023	Today 2024	Difference (+ /- )
Maximum	32.7 °C	31.7 °C	- 1.0 °C
Minimum	17.3 °C	19.4 °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 &amp; 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.**

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**Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
<b>A Punjab</b>		
1.	D.G.Khan	105
2.	Multan & Jhang	92 each
3.	Kot Addu	86
4.	Rajanpur	85
5.	Bhandu Wal	69
6.	Sargodha	54
7.	Narowal	49
8.	Khanewal	35
9.	Attock	32
10.	Rahim Yar Khan	28
11.	Faisalabad & Mianwali	23 each
12.	Joharabad	22
13.	Layyah (Kror) & Bhakkar	21 each
<b>B Sindh</b>		
14.	Khairpur	169
15.	Larkana	123
16.	Rohri & Moin-Jo-Daro	119 each
17.	Sukkur	100
18.	Jacobabad	99
19.	Dadu	75
20.	Rojhan & Jampur	70 each
21.	Mirpur Khas	35
22.	Padidan	31
23.	Chhor	24
24.	Karachi (Gulshan e Hadeed)	17
<b>C Khyber Pakhtunkhwa</b>		
25.	Warsak Dam	62
26.	Ghalanai	55
27.	Bannu	48
28.	Bosak Bidge	27
29.	Phulra	23
30.	Lower Dir	19
31.	Tarbela	18
32.	Saidu Sharif	13
<b>D Balochistan</b>		
33.	Kalat	48
34.	Sibbi	21
35.	Quetta & Khuzdar	10 each
<b>E AJ&amp;K</b>		
36.	Kotli	17
37.	Panjera	12

Source: FFD, Lahore (Phone No. 042 99200139)