



**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, JULY 31 2022**

Presently, River Indus is flowing in “**Low Flood**” at all its control structures i.e. **Tarbela, Kalabagh, Chashma, Taunsa, Guddu and Sukkur** except **Kotri** whereas River Kabul (a tributary of River Indus) is in “**Medium Flood**” at Nowshera and in “**Low Flood**” at **Warsak**. All other main rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej) are flowing in Normal Flow Conditions. For main rivers inflows/ outflows at important control structures, reservoirs storage position and Skardu temperature, **Annexure-I** may be seen. Today's Combined Live Storage of country's three major reservoirs is **6.488 MAF (48.20% of 13.461 MAF)**.

2. According to FFD, Lahore, a “**Well-marked Low Pressure area**” has developed and at present prevails over **Southern Punjab** around **D.G. Khan Division** whereas “**Light to Moderate**” moist currents from Arabian Sea are penetrating into upper parts of country upto 5,000 feet. Yesterday's Trough of **Westerly Wave** over Northeastern Afghanistan today lies over Northern parts of Pakistan whereas **Seasonal Low** prevails over Western Balochistan.

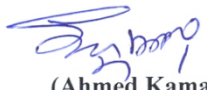
3. Under the influence of prevailing weather system, scattered to widespread thunderstorm/rain with “**Scattered Heavy Falls and Isolated Very Heavy Falls**” is expected over **Islamabad, Punjab (Rawalpindi, Sargodha & Gujranwala Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** during the next 24 hours. For the same time span, scattered thunderstorm/rain of “**Moderate Intensity**” with “**Isolated Heavy Falls**” is also expected over **Punjab (Lahore, Faisalabad, Sahiwal, Multan & D.G. Khan Divisions)** and **Eastern Balochistan** including upper catchments of all the major rivers of Indus River System. Isolated thunderstorm/rain may also occur over rest of the country during the next 24 hours. During the past 24 hours, Punjab, Khyber Pakhtunkhwa, Balochistan and AJ&K have experienced fairly widespread rains, as indicated in **Annexure-II**.

4. As a consequence of the rainfall forecasted above by FFD, Lahore, **High Flood Situation** is expected in **River Kabul at Nowshera & its Tributaries** during next 24 hours whereas **Hill Torrents of D.G. Khan and Tributaries/Nullahs of Rivers Ravi & Chenab** may also experience **Low to Medium Floods** during this period.

5. The Current Wet spell is likely to subside during the further next 24 hours, however, scattered thunderstorm/rain of “**Moderate Intensity**” with “**One or Two Heavy Falls**” may occur over the upper catchments of all the major rivers of Indus River System during the period from **1st August to 7th August 2022** (Source: FFD, Lahore).

6. All related organizations, particularly PDMA, SDMA, GBDMA, related DDMA, District Administrations and local field formations of concerned Irrigation Departments are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of low lying area communities, public & private property besides irrigation, drainage & flood protection infrastructure etc.

7. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) with specific reference to further movement, intensity and impact of **Low Pressure area (presently lies over D.G. Khan area)** over Pakistan and all concerned are being kept fully abreast of the situation through FFD, Lahore.


(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, Ministry of Climate Change, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, 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. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
28. Commissioner, Rawalpindi.
29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
30. Secretary, Irrigation Department, Government of Sindh, Karachi.
31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
39. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
40. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
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)/2022, Dated 31-07-2022

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PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions July 31, 2022 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	351,000	165,000	303,000	252,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	297,000	290,000	272,000	268,000	Low Flood (S)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	298,000	289,000	364,000	356,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	193,000	172,000	299,000	293,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	149,000	108,000	312,000	286,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	100,000	46,000	262,000	222,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	63,000	26,000	141,000	115,000	Normal	650,000
River Kabul									
• Warsak	540,000				45,000		41,000	Low Flood (F)	200,000
• Nowshera		450,000	29-07-2010		68,000		99,000	Med Flood (F)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		18,000		17,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		16,000		18,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		11,000		16,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	50,000	11,000	52,000	11,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	4,000	NIL	14,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	106,000	91,000	94,000	77,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	119,000	113,000	80,000	73,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	86,000	66,000	86,000	67,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	123,000	107,000	111,000	103,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	28,000	12,000	97,000	92,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		11,000		15,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		27,000		21,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	53,000	25,000	45,000	27,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	26,000	9,000	19,000	16,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	13,000	8,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	1,000	8,000	7,000	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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1468.60	1517.36	1529.00	5.827	4.104	4.654	79.87 %
Chashma	649.00	638.15	647.90	639.50	639.00	0.278	0.017	0.010	03.60 %
Mangla	1242.00	1050.00	1229.80	1189.15	1151.20	7.356	3.681	1.824	24.80 %
Total Live Storage						13.461	7.802	6.488	48.20 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	24.6 °C	30.0 °C	+ 5.4 °C
Minimum	15.5 °C	16.5 °C	+ 1.0 °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/ Historic Peak Floods: (applied on downstream discharge/Outflow)

(R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

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SUNDAY, JULY 31 2022

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Mangla	56
2.	Kallar	41
3.	Islamabad	Chaklala (Airbase)=40, Bokra=39, New Airport=36, Saidpur=32, Zeropoint=27, Golra=22 & Shamsabad=11
4.	Jhelum	39
5.	Lahore	Luckshami=34, Shahi Qilla=17 and Taj Pura=16
6.	Kamra (Airbase)	31
7.	Mandi-Bahauddin	29
8.	Gujranwala	26
9.	Hafizabad	22
10.	Sialkot	(Cantt=21 & Airport=12)
11.	DG Khan Airport	19
12.	Daulatnagar	18
13.	Sahiwal	16
14.	Kasur	15
15.	Rohtas	09
16.	Toba Tek Singh	05
B	Khyber Pakhtunkhwa	
17.	Dir	19
18.	Tarbela	16
19.	Risalpur & Takht Bai	10 each
20.	Cherat	06
21.	Phulra	05
C	Balochistan	
22.	Zhob	45
23.	Lasbela	17
24.	Sibbi	12
D	A J & K	
25.	Garhi Dopatta	25
26.	Kotli	22
27.	Palandri	20
28.	Bandi Abbaspur	10

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