



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY, JULY 20, 2023

Heavy rainfall in the upper catchment areas has resulted into enhanced flows in River Chenab which at present is flowing in Medium Flood in Khanki-Qadirabad reach and in Low Flood at Marala (first control structure on river Chenab in Pakistan). Also Rivers Indus and Ravi are in Low Flood at Tarbela and Jassar (1st control structure on River Ravi in Pakistan) respectively. Other major Rivers i.e Kabul, Jhelum and Sutlej are flowing with 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. Combined Live Storage of major reservoirs is 9.365 MAF (69.66 % of maximum value of 13.443 MAF).

2. According to FFD, Lahore, yesterday's Monsoon Low over Northwest Bay of Bagel (India) remained stationary there. Weak Monsoon currents from Bay of Bengal are penetrating into upper parts of Pakistan upto 5000 feet, which are likely to become moderate to strong during upcoming 03-days. With regard to other weather systems: at present Westerly Wave's trough prevails over Northern parts of Pakistan with Weak Seasonal Low lies over Balochistan.

3. For the ensuing 24 hours, Scattered Wind Thunderstorm/Rain of Moderate Intensity with Isolated Heavy Falls are expected over Islamabad, Punjab, Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions) and Balochistan (Zhob, Loralai, Sibbi, Nasirabad & Kalat Divisions) including upper catchments of all the major rivers of IRS. Isolated Wind Thunderstorm/Rain may also occur over Sindh during the same period. Current Monsoon activity over the country is likely to continue during the next 48 hours.

4. During the past 24 hours substantial rainfall has been experienced in Punjab, Khyber Pakhtunkhwa, AJ&K and Sindh. Details may be seen at Annexure-II.

5. For the extended period of 21st to 27th July, 2023, FFD, Lahore has predicted: Scattered to Widespread Wind Thunderstorm/Rain of Moderate Intensity with Heavy Falls at isolated places and Very Heavy Falls at one/ two places over the upper catchments of all the major rivers of IRS. This may result into:

- Sharp peaks of Medium to High level flood in River Jhelum (upstream Mangla) & in River Chenab.
- Medium level flood in the Nullahs of Rivers Ravi & Chenab
- Medium level flood in the Hill Torrents of D.G. Khan Division.

6. All concerned organizations especially Irrigation Department and PDMA, Punjab are advised to remain Alert & Vigilant, take prompt actions on warnings issued, especially in the context of high discharges in River Chenab and Ravi, to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.

7. Round-the-Clock monitoring of the current weather situation is being done by Pakistan Meteorological Department (PMD) through FFD, Lahore, being the Apex Flood Forecasting Agency at the National level, and keeping all informed as per its SOPs.

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

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.

Distribution:

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. 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)/2023, dated 20-07-2023

Rivers and Reservoir Positions July 20, 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	168,000	156,000	282,000	266,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	131,000	130,000	201,000	194,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	203,000	190,000	216,000	211,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	196,000	170,000	201,000	183,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	204,000	166,000	188,000	148,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	181,000	141,000	138,000	83,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	63,000	33,000	71,000	28,000	Normal	650,000
River Kabul									
• Warsak	540,000				25,000		32,000	Normal	200,000
• Nowshera					52,000		52,000	Normal	200,000
River Swat									
• Chakdara Bridge					10,000		14,000	Normal	150,000
• Munda (H. Works)					10,000		25,000	Normal	150,000
• Charsadda Road	150,000				10,000		20,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	30,000	14,000	52,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	10,000	NIL	9,000	5,000	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	61,000	33,000	138,000	120,000	Low Flood (R)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	29,000	23,000	205,000	197,000	Med Flood (R)	400,000
• Qadirabad	900,000	948,530	11-9-1992	28,000	6,000	203,000	185,000	Med Flood (R)	400,000
• Trimnu	875,000	943,225	08-7-1959	49,000	34,000	42,000	29,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	27,000	17,000	32,000	17,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		5,000		67,000	Low Flood (R)	150,000
• Shahdara	250,000	680,000	22-9-1988		15,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	8,000	50,000	22,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	21,000	12,000	30,000	16,000	Normal	90,000
River Sutlej									
• G.S. Wala	325,000	598,872	08-10-1955	25,000	18,000	Gauge 16.40	24,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	25,000	18,000	38,000	27,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	11,000	10,000	20,000	20,000	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	1470.21	1499.00	1520.47	5.809	3.146	4.181	71.97 %
Chashma	649.00	638.15	642.70	645.50	647.00	0.278	0.139	0.186	66.91 %
Mangla	1242.00	1050.00	1170.20	1130.95	1210.20	7.356	1.099	4.997	67.93 %
Total Live Storage						13.443	4.384	9.364	69.66 %

C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	36.6 °C	35.6 °C	- 1.0 °C
Minimum	19.2 °C	22.4 °C	3.2 °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.	Chakwal	176
2.	Lahore	90
3.	Murree	51
4.	Mandibahauddin	43
5.	Daulatnagar	36
6.	Kallar	33
7.	Islamabad	27
8.	Gujranwala	24
9.	Mangla	19
10.	Bahawalpur	17
11.	Attock	16
12.	Jhelum	15
13.	Sargodha	13
14.	Gujrat	11
15.	Sialkot	09
16.	Narowal	06
B	Sindh	
17.	Chhor	36
18.	Sukkur	13
19.	Mithi & Dadu	07 each
C	Khyber Pakhtunkhwa	
20.	Buner	72
21.	Tarbela	37
22.	Takht Bai	36
23.	Mamad Gut	31
24.	Malam Jabba	28
25.	Pashat-Bajaur	26
26.	Khaar-Bajaur	19
27.	Daggar & Dhok Pathan	13 each
28.	Balakot	12
29.	Shinkiari	11
30.	Kamra	08
31.	Kakul	07
32.	Mardan	06
D	Balochistan	
33.	Zhob	18
E	AJ & K	
34.	Domel	92
35.	Palandri	78
36.	Muzaffarabad	63
37.	Rawalakot	38
38.	Bandi Abbaspur	26
39.	Kotli	14
40.	Garhi Dopatta	12
41.	Haraman	11
42.	Chattar Kallas	08

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