



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  
SATURDAY, JULY 22, 2023

River Indus is experiencing Low Flood at Tarbela, Kalabagh and Chashma, whereas River Kabul (a tributary of river Indus) is in Low Flood at Warsak & Nowshera control points. River Chenab is flowing in Low Flood at Marala. Rest of the major Rivers of Indus River System are flowing Normal at reporting time at 0600 hours today. Annexure-I depicts Inflows/ Outflows of major rivers at specified control structures and overall storage position. Today's combined live storage of Mangla, Tarbela & Chashma reservoirs is 9.648 MAF which is 71.77 % of total 13.443 MAF.

2. According to FFD, Lahore, yesterday's trough of Westerly Wave over Northern parts of Afghanistan today lies over Northern parts of Pakistan. Yesterday's Monsoon Low over Northwest Bay of Bengal (India) moved westwards and today lies over Southwest Chattisgarh (India). Strong Moist Currents from Bay of Bengal and Mild Moist Current from Arabian sea are penetrating into upper parts of Pakistan up to 7000 feet. This condition is likely to continue. Weak Seasonal Low continues to prevail over Balochistan.

3. For the ensuing 24 hours, FFD, Lahore has predicted Scattered to Widespread Wind Thunderstorm/Rain of Moderate to Heavy Intensity with Isolated Very Heavy Falls is expected over the Upper Catchments of Rivers Sutlej, Ravi & Chenab along with Punjab (Lahore & Gujranwala) and Balochistan (Southern parts of Kalat Division). Scattered to Widespread Wind Thunderstorm/Rain of Moderate Intensity with Isolated Heavy Falls is expected over the Upper Catchments of Rivers Indus, Jhelum, Khyber Pakhtunkhwa, rest of Punjab, Sindh along with Balochistan (Zhob, Loralai, Sibbi & Nasirabad Divisions) during the same period. During the past 24 hours appreciable rainfall events have been reported in Punjab, Sindh, Khyber Pakhtunkhwa, Balochistan and A.J&K. Annexure-II is referred for details.

4. For the next 48 hours, according to FFD Lahore, Medium to High level flood is expected in River Chenab & River Jhelum (upstream Mangla) alongwith associated nullahs of Rivers Ravi & Chenab and Current Wet Spell is likely to prevail and Heavy to Very Heavy Rain Fall is expected over South and Southeastern Sindh.

5. For the next week (23<sup>rd</sup> to 29<sup>th</sup> July 2023), FFD, Lahore has predicted as under:

- ⇒ Scattered to Widespread Wind Thunderstorm/Rain of Moderate to Heavy Intensity with Very Heavy Falls at Isolated places is expected over the Upper Catchments of Rivers Sutlej, Ravi & Chenab.
- ⇒ Scattered Wind Thunderstorm/Rain of Moderate Intensity with Isolated Heavy Falls is expected over the Upper Catchments of Rivers Indus & Jhelum.
- ⇒ Medium to High Level Flood in River Chenab.
- ⇒ Sharp peaks of Medium to High Level Flood in River Jhelum (upstream Mangla).
- ⇒ Medium Level Flood in the Nullahs of Rivers Ravi & Chenab.
- ⇒ Medium Level Flood in Hill Torrents of D.G. Khan Division.

6. All concerned organizations especially Flood Mitigation Committee (FMC) at Mangla, PDMA Punjab, SDMA, PID Punjab and relevant district administration, are advised to remain Alert & Vigilant, take prompt actions on warnings issued, 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 ensured by Pakistan Meteorological Department (PMD) through FFD, Lahore, being the Apex Flood Forecasting Agency at the National level, and is keeping all fully informed.

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

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2. Minister for Planning, Development & Special Initiatives, Islamabad.

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25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
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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 22-07-2023**

## Rivers and Reservoir Positions July 22, 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 (VHFF) 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	209,000	158,000	301,000	282,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	181,000	175,000	297,000	289,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	214,000	200,000	346,000	343,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	190,000	170,000	222,000	204,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	170,000	143,000	185,000	152,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	158,000	125,000	145,000	91,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	97,000	64,000	65,000	26,000	Normal	650,000
<b>River Kabul</b>									
• Warsak	540,000				30,000		43,000	Low Flood (R)	200,000
• Nowshera					55,000		67,000	Low Flood (R)	200,000
<b>River Swat</b>									
• Chakdara Bridge					14,000		16,000	Normal	150,000
• Munda (H. Works)					9,000		18,000	Normal	150,000
• Charsadda Road	150,000				11,000		18,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	34,000	11,000	58,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	14,000	NIL	7,000	5,000	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	95,000	86,000	120,000	111,000	Low Flood (R)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	72,000	66,000	99,000	91,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	77,000	55,000	84,000	74,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	33,000	21,000	97,000	87,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	39,000	34,000	30,000	19,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		8,000		40,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		27,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	42,000	17,000	60,000	32,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	13,000	28,000	16,000	Normal	90,000
<b>River Sutlej</b>									
• G.S. Wala						Gauge 17.80	38,000	Normal	
• Suleimanki	325,000	598,872	08-10-1955	18,000	12,000	47,000	36,000	Normal	175,000
• Islam	332,000	492,581	11-10-1955	12,000	12,000	28,000	27,000	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)
			2021	2022	2023	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1402.00	1483.38	1501.31	1523.89	5.809	3.255	4.361	75.07 %
Chashma	649.00	638.15	643.80	644.40	643.10	0.278	0.110	0.080	28.78 %
Mangla	1242.00	1050.00	1174.45	1134.10	1213.20	7.356	1.203	5.207	70.79 %
<b>Total Live Storage</b>						<b>13.443</b>	<b>4.568</b>	<b>9.648</b>	<b>71.77 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2022	Today 2023	Difference (+ / -)
Maximum	35.7 °C	23.6 °C	- 12.1 °C
Minimum	16.4 °C	14.3 °C	- 2.1 °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)
<b>A Punjab</b>		
1.	Sahiwal	49
2.	Haraman	48
3.	Lahore	[Gulshan e Ravi=42, Luckshami=33, Shahi Qilla=31, Township=19, Johar Town=15, Iqbal Town=14, Samanabad & Taj Pura=12 (each), Misri Shah, Qurtba chowk & Shahdara=10(each), Jail Road & Mughal Pura=07(each)]
4.	Islamabad	(Golra=27 & Zeropoint=19)
5.	Hafizabad	23
6.	Murree	20
7.	Chunian	18
8.	Layyah & Gujrat	14 each
9.	Sargodha	18
10.	Jhelum	13
11.	Daulatnagar	11
12.	Mangla	09
13.	Gujranwala	08
<b>B Sindh</b>		
14.	Karachi	[North Karachi=42, Surjani Town=31 & Gulshan e Maymar=17]
15.	Chhor	07
<b>C Khyber Pakhtunkhwa</b>		
16.	Balakot	30
17.	Chitral	(Chowni Bridge =28 & Airport=13)
18.	Shinkiari	22
19.	Bannu	19
20.	Cherat	18
21.	Phulra	15
22.	Darashoot	13
23.	Buner	09
24.	Bajaur	08
<b>D Balochistan</b>		
25.	Kalat	30
26.	Ziarat	14
<b>E AJ &amp; K</b>		
1.	Chattar Kallas	55
2.	Muzaffarabad	(City=22, Airport=14)
3.	Garhi Dopatta	21

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