



**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
WEDNESDAY AUGUST 17, 2022**

At present River Indus is flowing in “**Low Flood**” in its reaches **Tarbela-Kalabagh, Kalabagh-Chashma, Chashma-Taunsa, Taunsa-Guddu** and **Guddu-Sukkur**. River Chenab is also in “**Low Flood**” at **Qadirabad** (downstream Khanki). Others main rivers of Indus River System (Jhelum, Ravi & Sutlej) are flowing in Normal Flows. **Annexure-I** depicts main rivers inflows/outflows at important control structures, reservoirs storage position besides Skardu temperature. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **8.544 MAF** (i.e. **63.47 %** of **13.461 MAF**).

2. According to FFD, Lahore, yesterday's **Depression** over West Madhya Pradesh (India) has moved in West-Northwestwards direction and today lies over Western Parts of Rajasthan (India) with the same intensity. It is likely to move further in West-Northwestwards direction and affect **Punjab (Multan & D.G. Khan Divisions), Sindh, Khyber Pakhtunkhwa (D.I. Khan Division)** and **Balochistan vigorously during next 03 days**.

3. In addition to above, “**Low Pressure Area**” earlier over North Arabian Sea has now become insignificant for Pakistan. Trough of Westerly Wave continues to prevail over Northern parts of Afghanistan with Seasonal Low lies over Northwestern Balochistan. At present, **Intense Moist Currents** from Arabian Sea are penetrating into Southern Punjab, Sindh and Balochistan upto 15000 feet (Source: FFD, Lahore).

4. **Next 24 hours Forecast:**

Widespread Thunderstorm/Rain with Heavy to Very Heavy Falls at Scattered Places and Extremely Heavy Falls at Isolated Places are expected over **Sindh and Eastern Balochistan**. **Scattered to Widespread Thunderstorm/Rain of Moderate to Heavy Intensity** with isolated **Very Heavy Falls** may also occur over **Punjab (Bahawalpur, D.G. Khan, Multan & Sargodha Divisions)** and **Khyber Pakhtunkhwa (D.I. Khan Division)**. Additionally, **Scattered Thunderstorm/Rain of Moderate Intensity with Isolated Heavy Falls** is expected over rest of the country except Western Balochistan. Significant rainfall events reported by FFD, Lahore, during the past 24 hours may be seen at **Annexure-II** (Source: FFD, Lahore).

5. **Weather Outlook & Flood Forecast, 18th-19th August 2022**

Strong Monsoon Activity is likely to continue over **Southern Punjab, Sindh, Khyber Pakhtunkhwa (D.I. Khan Division)** and **Balochistan** from **17th to 19th August 2022** which may result:

- **Fairly Widespread thunderstorm/rain with Very Heavy Falls at scattered places and Extremely Heavy Falls at isolated places** is expected over **Punjab (Bahawalpur, Multan, D.G Khan Divisions), Sindh, Khyber Pakhtunkhwa (D.I. Khan Division)** and **Eastern Balochistan**.
- **Scattered thunderstorm/ rain of Moderate Intensity with Isolated Heavy Falls** are expected over rest of the country except Western Balochistan.


As a consequence:

- ⇒ **Severe Flash Flooding** is expected in the **Hill Torrents of D.G. Khan Division** including **Rivers/Nullahs of Eastern Balochistan** from **17th to 19th August 2022**.
- ⇒ **Flows from Hill Torrents of D.G. Khan Division** may cause **Medium to High Level Flooding** in **River Indus at Taunsa, Guddu & Sukkur**.
- ⇒ **Severe Urban Flooding** in **Sindh** from **17th to 19th August 2022**.

6. Managers of major dams/ reservoirs/ barrages/ headworks including respective field formation of Irrigation Departments are advised to remain on “**HIGH ALERT**” to effectively manage/ route forecasted river discharges ensuring their structural safety through coordinated and round-the-clock patrolling of river embankments.

7. All concerned organizations including PDMAs/DDMAs are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations (especially in the context of flood generating hill torrents in the areas of forecast) to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

8. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system specifically with reference to the **Depression** (Presently lying over Western Parts of Rajasthan, India) its further movement and impact over Pakistan and is keeping all concerned fully informed through FFD, Lahore.



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

Distribution:

1. Minister for Water Resources, Islamabad.
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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.
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12. Chief Executive Officer, Pakistan Railways, Lahore.
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17. Director General, Pakistan Meteorological Department, Islamabad.
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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.
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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 17-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 17, 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 ⁿ
		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	144,000	107,000	263,000	252,000	Low Flood (F)	650,000
• Kalabagh	950,000	950,000	14-7-1942	156,000	148,000	260,000	254,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	185,000	175,000	363,000	348,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	168,000	140,000	269,000	269,000	Low Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	121,000	90,000	348,000	343,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	86,000	35,000	280,000	276,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	58,000	22,000	199,000	196,000	Normal	650,000
River Kabul									
• Warsak	540,000				22,000		31,000	Normal	200,000
• Nowshera		450,000	29-07-2010		33,000		55,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		11,000		15,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		8,000		18,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		6,000		16,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	26,000	11,000	34,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	19,000	16,000	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	48,000	13,000	106,000	93,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	16,000	8,000	105,000	99,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	20,000	NIL	125,000	109,000	Low Flood (F)	400,000
• Trimmu	875,000	943,225	08-7-1959	19,000	7,000	84,000	72,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	16,000	NIL	65,000	56,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		4,000		48,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		29,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	5,000	37,000	10,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	17,000	NIL	22,000	9,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	15,000	5,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	2,000	1,000	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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1530.93	1545.58	1548.20	5.827	5.629	5.723	98.21 %
Chashma	649.00	638.15	644.70	646.80	639.00	0.278	0.179	0.010	3.60 %
Mangla	1242.00	1050.00	1235.95	1203.15	1172.90	7.356	4.535	2.811	38.21 %
Total Live Storage						13.461	10.343	8.544	63.47 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	24.6 °C	28.8 °C	+ 4.2 °C
Minimum	7.3 °C	15.3 °C	+ 8.0 °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 freeboards

"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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Murree	45
2.	Islamabad	34
3.	DG Khan	31
4.	Khanpur & Kamra	18 each
5.	Kot Addu	14
6.	Rahim Yar Khan	12
B	Sindh	
7.	Tando Jam	129
8.	Karachi	98
9.	Thatta	52
10.	Mithi	46
11.	Larkana	40
12.	Rohri	33
13.	Mirpur Khas	28
14.	Chhor	27
15.	Padidan	26
16.	Hyderabad	24
17.	Khairpur	21
18.	Jacobabad	18
19.	Shaheed Benazirabad	16
20.	Badin	15
21.	Sukkur	09
C	Balochistan	
22.	Panjgur	38
23.	Muslim Bagh	15
24.	Pishin	13
25.	Ziarat	10
26.	Kalat	08
D	Khyber Pakhtunkhwa	
27.	Malam Jabba	31
28.	Mirkhani	30
29.	Cherat	22
30.	Drosh	21
31.	Besham	20
32.	D.I.Khan & Peshawar	15 each
33.	Kalam, Kohat, Landi Kotal & Buner	12 each
34.	Pattan	11
35.	Mamad Gut, Dir & Tirah-Khyber	10 each
36.	Tarbela	07
E	Gilgit-Baltistan	
37.	Gupis	14
38.	Bunji	11
F	AJ&K	
39.	Chakothe	25
40.	Palandri	19
41.	Bandi Abbaspur	16
42.	Kotli	15
43.	Hajira	13
44.	Domel	11
45.	Muzaffarabad	10
46.	Garhi Dopatta	07

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