



**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
TUESDAY AUGUST 16, 2022**

Presently River Indus is flowing in “**Low Flood**” in its reaches **Chashma-Taunsa, Taunsa-Guddu, Guddu-Sukkur** and **Sukkur-Kotri**. River Chenab is also in “**Medium Flood**” at **Khanki-Qadirabad** reach and in “**Low Flood**” at **Marala** (upstream Khanki). Others main rivers of Indus River System (Jhelum, Ravi & Sutlej) are flowing in Normal Flows. For main rivers inflows/outflows at important control structures, reservoirs storage position and Skardu temperature at 0600 hours today, **Annexure-I** is referred. Present Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **8.457 MAF** (i.e. **62.82 %** of **13.461 MAF**).

2. Yesterday's **Depression** over North Chhattisgarh (India) and adjoining areas has moved in West-Northwestwards direction and today lies over West Madhya Pradesh (India) and is likely to move further in the same direction and may weaken into **Well Marked Low Pressure Area**. Another **Low Pressure Area** earlier over North Arabian Sea has moved in Westwards direction and today lies over 130 km South of Ormara (Balochistan) which is likely to move further in Westwards direction and become insignificant for Pakistan.

3. Further to above, trough of Westerly Wave continues to prevail over Northern parts of Afghanistan with Seasonal Low lies over Northwestern Balochistan. At present, **Moderate to Strong Moist** currents both from Bay of Bengal and Arabian Sea are penetrating into lower half of Pakistan upto 10000 feet whereas **Light to Moderate** moist currents from Bay of Bengal alone are also penetrating into upper half of Pakistan upto 5000 feet (Source: FFD, Lahore).

Next 24 hours Forecast:

4. **Scattered to widespread thunderstorm/rain** of **Moderate to Heavy Intensity** (with **Isolated Very Heavy Falls**) is expected over **Sindh**. **Scattered thunderstorm/rain** of **Moderate Intensity** with **Isolated Heavy Falls** is also expected over **Islamabad, Punjab (D.G. Khan, Rawalpindi, Sargodha & Gujranwala Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** and **Eastern & Coastal Balochistan** including upper catchments of all the major rivers of Indus River System, besides isolated thunderstorm/rain over rest of the country. 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, 17th-19th August 2022**

- **Fairly Widespread thunderstorm/rain** with **Very Heavy Falls** at scattered places and **Extremely Heavy Falls** at isolated places are expected over **D.G. Khan & Multan Divisions** of **Punjab, Sindh** and **Eastern & Coastal Balochistan**.
- **Scattered Thunderstorm/ Rain** of **Moderate Intensity** with **Isolated Heavy Falls** are expected over rest of the Country except West Balochistan.

As a consequence:

- ⇒ **Moderate Flash Flooding** is expected in the tributaries of **Rivers Kabul & Indus** during next **24 hours**.
- ⇒ **Severe Flash Flooding** is expected in the **Hill Torrents** of **D.G. Khan Division** including **Rivers/Nullahs of Balochistan** during **17th to 19th August, 2022**.
- ⇒ **Flows from Hill Torrents** of **D.G. Khan Division** from **17th August 2022** may cause **Medium to High Level Flooding** in **River Indus** at **Taunsa, Guddu & Sukkur**.
- ⇒ **Urban Flooding** in **Sindh** from **16th to 19th August 2022**.

6. **Specific Directions For Dam/Reservoir/Barrages Management Organizations:**

In view of FFD, Lahore's above mentioned forecast for the ensuing period (17th August to 19th August 2022) "Extreme Vigilance" and watch & patrolling would be mandatory for effective flood routing.

7. Further to above, all concerned organizations including PDMAs/ DDMA's 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 over Pakistan and is keeping all concerned fully informed through FFD, Lahore.



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

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38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
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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 16-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 16, 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	172,000	106,000	296,000	218,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	159,000	151,000	235,000	229,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	192,000	183,000	278,000	261,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	161,000	133,000	291,000	291,000	Low Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	128,000	96,000	296,000	293,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	86,000	38,000	250,000	228,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	89,000	54,000	213,000	203,000	Low Flood (S)	650,000
River Kabul									
• Warsak	540,000				26,000			Normal	200,000
• Nowshera		450,000	29-07-2010		43,000		39,000 56,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		11,000		16,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		11,000		10,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		6,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	35,000	16,000	40,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	23,000	20,000	12,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	56,000	21,000	156,000	144,000	Low Flood (F)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	27,000	20,000	173,000	167,000	Med Flood (F)	400,000
• Qadirabad	900,000	948,530	11-9-1992	23,000	3,000	182,000	166,000	Med Flood (R)	400,000
• Trimmu	875,000	943,225	08-7-1959	19,000	7,000	106,000	97,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	17,000	1,000	47,000	38,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		5,000		31,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		9,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	33,000	5,000	32,000	6,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	1,000	21,000	9,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	3,000	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	1526.66	1544.87	1547.20	5.827	5.589	5.666	97.24 %
Chashma	649.00	638.15	643.50	647.40	640.30	0.278	0.202	0.029	10.43 %
Mangla	1242.00	1050.00	1235.60	1202.95	1171.95	7.356	4.522	2.762	37.55 %
Total Live Storage						13.461	10.313	8.457	62.82 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	21.3 °C	29.4 °C	+ 8.1 °C
Minimum	10.4 °C	18.4 °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.	Lahore	66
2.	Shorkot	53
3.	Islamabad	42
4.	Multan & Sialkot	32 each
5.	Faisalabad	21
6.	Kallar	13
7.	Zafarwal	08
8.	Marala	06
9.	Khanewal & Gujranwala	05 each
B	Sindh	
10.	Padidan	110
11.	Sakrand	38
12.	Dadu	37
13.	Moin-Jo-Daro	27
14.	Tando Jam	15
15.	Larkana	10
16.	Badin	07
17.	Mithi & Karachi	05 each
C	Balochistan	
18.	Panjgur	25
19.	Zhob	11
20.	Khuzdar	07
D	Khyber Pakhtunkhwa	
21.	Daggar	81
22.	Dir & Oghi	23 each
23.	Risalpur	22
24.	Bannu	18
25.	Kalam	15
26.	Nowshera, Shinkhari & Pattan	12 each
27.	Tirah-Khyber	11
28.	Parachinar	09
29.	Mirkhani & Besham	08 each
30.	Kakul & Pashat-Bajaur	06 each
31.	Buner, Phulra & Balakot	05 each
E	Gilgit-Baltistan	
32.	Gupis & Bagrote	05 each
F	AJ&K	
33.	Garhi Dopatta	23
34.	Domel	17
35.	Rawalakot	15
36.	Palandri	13
37.	Muzaffarabad	08
38.	Chakothe	06

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