



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
THURSDAY AUGUST 11, 2022

Except for River Indus which is flowing in “**Low Flood**” at Chashma (downstream Tarbela) and at Kotri (the last control structure on River Indus upstream Arabian Sea), all other main rivers of the Indus River System (Jhelum, Chenab, Ravi, & Sutlej) are flowing under “Normal Flow Condition”. Today's Inflows/ Outflows of main rivers at important control structures, storage position of reservoir and Skardu temperature may be seen at **Annexure-I**. Present Combined Live Storage of the Tarbela, Mangla & Chashma is **8.119 MAF** (i.e. **60.31%** of the total **13.461 MAF**).

2. Yesterday's **Well Marked Monsoon Low** over Chhattisgarh and adjoining East Madhya Pradesh (India) today lies over Central parts of Madhya Pradesh (India). Another **Well Marked Low-Pressure Area** has developed presently over Northeastern Arabian Sea and adjoining areas. Trough of Westerly Wave continues to prevail over Northeastern Afghanistan and adjoining areas with Seasonal Low lies over Northwestern Balochistan. As per FFD, Lahore Strong Moist Currents (both from the Arabian Sea & Bay of Bengal) are penetrating into Pakistan (Sindh & East Balochistan) up to 7000 feet besides Moderate to Strong Moist Currents from Bay of Bengal are also penetrating into upper parts of the Pakistan upto 7000 feet.

3. **FFD, Lahore Predication for next 24 hours;**

Scattered to widespread thunderstorm/rain of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** is expected over **D.G. Khan Division of Punjab, Kohat, Bannu & D.I. Khan Divisions of Khyber Pakhtunkhwa, Sindh and Eastern Balochistan**. Scattered thunderstorm/rain may also occur over **Islamabad, Punjab (Rawalpindi, Gujranwala, Multan & Sargodha Divisions), Khyber Pakhtunkhwa (Peshawar Division)** and upper catchments of all the major rivers of Indus River system during the same period, besides **Isolated** thunderstorm/rain over rest of the country. **Heavy to Very heavy** rainfall events have been reported by FFD Lahore in Sindh Province during the past 24 hours (Padidan=142 mm, Tando Jam=62 mm, Karachi=52 mm & Badin=46 mm). **Annexure-II** is referred.


4. **11th to 17th August 2022 Weather Outlook & Flood Forecast (FFD, Lahore)**

- “**Intense Monsoon Activity**” is likely to continue over **Punjab (D.G. Khan & Multan Divisions), Khyber Pakhtunkhwa (Kohat, Bannu & D.I. Khan Divisions), Sindh and Balochistan** from **12th to 14th August 2022**. Scattered thunderstorm/rain of **Moderate Intensity** is expected over rest of the country from **12th to 14th August 2022**.
- Scattered rainfall of **Moderate Intensity** with **Isolated Heavy Falls** is expected over the upper catchments of all the Major Rivers including widespread rainfall of **Heavy to Very Heavy Intensity** over the **Suleman Range (D.G. Khan & Rajanpur Districts of Punjab Province), Sindh and Balochistan** from **11th to 14th August 2022**.
- In addition to above, widespread thunderstorm/rain with **Heavy to Very Heavy Falls** at scattered places may also occur over upper catchments of Rivers **Kabul, Indus & Jhelum** during **15th to 16th August, 2022**.
- As a consequence:
⇒ **Medium to High Level Flooding** is expected in **River Chenab** at **Marala** (first control structure on river Chenab in Pakistan) & **Khanki** (upstream Qadirabad) during the next **24** hours and at **Qadirabad** after **24** hours.

- ⇒ **Medium to High Level Flooding** is also expected in the **Nullahs of Rivers Ravi & Chenab** during next **48 hours**.
- ⇒ **Flash flooding** is expected in the Rivers/Nullahs of **Kohat, Bannu & D.I.Khan Divisions** of Khyber Pakhtunkhwa including **District Mianwali** of Punjab Province during **11th to 12th August 2022** and in the Rivers/Nullahs of Balochistan & Hill Torrents of D.G. Khan Division from **11th to 14th August 2022**.
- ⇒ **Urban Flooding** is expected in Sindh from **11th to 14th August 2022**.
- ⇒ Flows are likely to increase significantly in Rivers **Kabul, Indus & Jhelum** and their **tributaries** from **15th to 17th August, 2022**

5. All concerned organizations including field formation of **Provincial Irrigation Departments, PDMA**s and **DDMA**s are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

6. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system especially with reference to the **Well-Marked Monsoon Low** (presently over Central parts of Madhya Pradesh, India), its further movement & intensity and likely 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.
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, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad
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13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
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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.

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29. Commissioner, Gujranwala Division.
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31. Commissioner, D.I Khan Division.
32. Secretary, Irrigation Department, Government of the Punjab, Lahore.
33. Secretary, Irrigation Department, Government of Sindh, Karachi.
34. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
35. Secretary, Irrigation Department, Government of Balochistan, Quetta.
36. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
37. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
38. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
39. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
40. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
41. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
42. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
43. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
44. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
45. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
46. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
47. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
48. Managing Director, WASA, Rawalpindi.
49. Principal Information Officer, Press Information Department, Islamabad.
50. Director (News), Associated Press of Pakistan, Islamabad.
51. Director (News), Pakistan Television, Islamabad.
52. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
53. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No.FC-I (31)/2022, Dated 11-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions August 11, 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	163,000	143,000	216,000	248,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	146,000	140,000	145,000	138,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	176,000	163,000	295,000	280,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	180,000	169,000	152,000	136,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	172,000	135,000	183,000	146,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	169,000	112,000	163,000	126,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	117,000	81,000	213,000	201,000	Low Flood (R)	650,000
River Kabul									
• Warsak	540,000				25,000		29,000	Normal	200,000
• Nowshera		450,000	29-07-2010		33,000		46,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		10,000		12,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		8,000		9,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		8,000		10,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	50,000	13,000	34,000	7,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	19,000	16,000	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	60,000	26,000	88,000	62,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	32,000	24,000	66,000	59,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	27,000	7,000	56,000	37,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	31,000	15,000	41,000	34,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	31,000	15,000	56,000	44,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		13,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		23,000		18,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	38,000	9,000	39,000	20,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	25,000	8,000	22,000	8,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	12,000	3,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	6,000	5,000	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	1505.37	1541.15	1543.70	5.827	5.376	5.466	93.80 %
Chashma	649.00	638.15	640.10	642.60	645.70	0.278	0.070	0.145	52.16 %
Mangla	1242.00	1050.00	1233.85	1201.20	1166.70	7.356	4.407	2.508	34.09 %
Total Live Storage						13.461	9.853	8.119	60.31 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ /-)
Maximum	30.4 °C	34.6 °C	+ 4.2 °C
Minimum	13.3 °C	18.3 °C	+ 5.0 °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)
B	Sindh	
1.	Padidan	142
2.	Tando Jam	62
3.	Karachi	52
4.	Badin	46
5.	Mithi	28
6.	Tharparker	23
7.	Hyderabad	15
8.	Thatta	12
9.	Jacobabad	10
10.	Mirpur Khas	07

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