



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
WEDNESDAY AUGUST 10, 2022

At present, there is no riverine flood situation in the country as all main rivers of the Indus River System (i.e. rivers Indus, Jhelum, Chenab, Ravi, Sutlej & Kabul) are discharging Normal flows. 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 **8.131 MAF** (i.e. **60.40%** of the total **13.461 MAF**).

2. **Well Marked Monsoon Low** earlier over Coastal Orissa (India) has moved in West-Northwestwards direction and today lies over Chhattisgarh and adjoining areas of East Madhya Pradesh (India). Seasonal Low continues to prevail over Northwestern Balochistan with Westerly Wave trough persisting over Northeastern Afghanistan and adjoining areas. At present moderate to strong moist currents from Bay of Bengal are penetrating into Pakistan (Sindh & Southern Punjab) upto 7000 feet (Ref: FFD, Lahore).

3. For the ensuing 24 hours, FFD, Lahore has predicted scattered thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy Falls** over **Southern Sindh** besides, isolated thunderstorm/rain over upper catchments of all the major rivers of Indus River System including rest of the country. Few rainfall events have been reported by FFD Lahore for the past 24 hours (**Annexure-II**).

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

There is a likelihood of **Intense Monsoon Activity** over **Punjab (D.G. Khan, Multan & Bahawalpur Divisions)**, **Khyber Pakhtunkhwa (Kohat, Bannu & D.I. Khan Divisions)**, **Sindh** and **Balochistan**, which may result in widespread rainfall of **Heavy to Very Heavy Intensity** over **Suleman Range** including **Sindh** and **Balochistan** from **11th to 14th August 2022**. For the same time span, scattered thunderstorm/rain of **Moderate Intensity** may also occur over rest of the country including scattered rainfall of **Moderate** with **Isolated Heavy Falls** over upper catchments of all the major rivers. Additionally, widespread thunderstorm/rain with **Heavy to Very Heavy Falls** is expected at scattered places over upper catchments of rivers **Kabul, Indus & Jhelum** during **15th to 16th August 2022**. As a consequence:

- **Flash flooding** is expected in the Rivers/Nullahs of **Mianwali District of Punjab, Kohat, Bannu & D.I. Khan Divisions of KP** during **11th to 12th August 2022**.
- **Flash Flooding** is expected in Rivers/Nullahs of **Balochistan** & Hill Torrents of **D.G. Khan Division** from **11th to 14th August 2022**
- **Urban Flooding** in **Sindh** from **11th to 14th August 2022**.
- **Flows** are likely to increase **significantly** in rivers **Kabul, Indus & Jhelum** including their tributaries during **15th to 17th August 2022**.

5. All concerned organizations 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 monitoring the present weather system especially with reference to the **Well-Marked Monsoon Low** (presently over Chhattisgarh and adjoining areas of East Madhya Pradesh, India), its further movement and likely impact over Pakistan on Round-the-Clock basis and keeping all concerned 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.

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)/2022, Dated 10-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions August 10, 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	155,000	127,000	195,000	158,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	149,000	143,000	155,000	148,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	182,000	167,000	209,000	192,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	186,000	163,000	152,000	136,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	231,000	192,000	202,000	168,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	227,000	170,000	174,000	138,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	109,000	74,000	206,000	195,000	Normal	650,000
River Kabul									
• Warsak	540,000				24,000		27,000	Normal	200,000
• Nowshera		450,000	29-07-2010		39,000		49,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		14,000		13,000	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	34,000	34,000	32,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	3,000	NIL	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	64,000	30,000	75,000	49,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	34,000	27,000	61,000	55,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	29,000	9,000	67,000	48,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	34,000	18,000	50,000	44,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	32,000	18,000	65,000	54,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		11,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		22,000		21,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	38,000	9,000	38,000	19,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	24,000	7,000	21,000	8,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	12,000	5,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	NIL	10,000	9,000	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	1500.80	1541.00	1542.70	5.827	5.368	5.409	92.83 %
Chashma	649.00	638.15	640.50	643.70	648.50	0.278	0.093	0.253	91.00 %
Mangla	1242.00	1050.00	1233.35	1200.80	1165.85	7.356	4.381	2.469	33.56 %
Total Live Storage						13.461	9.842	8.131	60.40 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	27.3 °C	34.8 °C	+ 7.5 °C
Minimum	13.0 °C	19.8 °C	+ 6.8 °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"

**Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission
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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Narowal	43
2.	Ravi Syphon	09
3.	Sharqpur, Murree & Mandibahauddin	05 each
B	Sindh	
4.	Karachi	09
5.	Dadu	06
C	Khyber Pakhtunkhwa	
6.	Pashat-Bajaur & Kakul	11 each
7.	Malam Jabba	05
D	Balochistan	
8.	Lasbela	08
9.	Ormara	05
D	AJ&K	
10.	Dhulli	12

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