



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
SUNDAY AUGUST 14, 2022

Except for River Indus which is in “**Low Flood**” at **Guddu** and at **Kotri** (the last control structure on River Indus upstream Arabian Sea), all other main rivers of Indus River System (**Jhelum, Chenab, Ravi, Sutlej & Indus** at rest of the control points) are discharging **Normal Flows**. For main rivers inflows/ outflows at important control structures, reservoirs storage position and Skardu temperature, **Annexure-I** may be seen. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **8.278 MAF** (i.e. **61.50 %** of **13.461 MAF**).

2. According to FFD, Lahore, yesterday's “**Depression**” over North of Arabian Sea today lies over 120-Km Southwestern of Karachi as “**Well Marked Low**”, whereas **Monsoon Low**, earlier over North Bay of Bengal has intensified into “**Well Marked Low**” and today lies over Northern Orrisa (India). A fresh trough of Westerly Wave lies over Northern parts of Afghanistan.

3. Further to above, moderate to strong moist currents both from Bay of Bengal & Arabian Sea are penetrating into lower half of Pakistan up to 10,000 feet and light to moderate moist currents from Bay of Bengal are penetrating into upper half of Pakistan up to 5000 feet with Seasonal Low lies over Western Balochistan.

4. For the ensuing 24 hours, FFD, Lahore has predicted scattered thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy Falls** over **Punjab (D.G. Khan, Multan & Bahawalpur Divisions), Khyber Pakhtunkhwa (D.I.Khan Division), Sindh, Eastern & Coastal Balochistan**. Scattered thunderstorm/rain of **Moderate Intensity** may also occur over **Islamabad, Punjab (Rawalpindi, Gujranwala, Lahore & Sargodha Divisions)** and **Peshawar Division (Khyber Pakhtunkhwa)** including over upper catchments of all the main rivers besides isolated thunderstorm/rain over rest of Pakistan during the same period. As a result, **Medium to High level flooding** is expected in **Hill Torrents of D.G. Khan Division (Punjab)** during the next 24 hours. Significant rainfall events reported by FFD, Lahore, during the past 24 hours may be seen at **Annexure-II**.

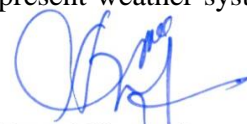
15th to 21st August 2022: Weather Outlook & Flood Forecast (Source: FFD, Lahore)

5. Scattered to widespread thunderstorm/rain is expected over **Islamabad, Punjab (Rawalpindi, Sargodha & Gujranwala Divisions), Khyber Pakhtunkhwa (Peshawar Division)** including upper catchments of Rivers Kabul, Indus, Jhelum & Chenab besides scattered thunderstorm/rain of **Moderate Intensity** over **Punjab (Lahore, Faisalabad, D.G.Khan & Bahawalpur Divisions), Khyber Pakhtunkhwa (Kohat, Bannu & D.I.Khan Divisions), Sindh and Balochistan** which may cause **Flash Flooding** in the **tributaries/nullahs of Rivers Kabul & Indus** after 24 hours.

6. A strong Monsoon activity is likely to start again over **Sindh, Balochistan and Southern Punjab** from **16th August 2022**. As a consequence, **Urban Flooding** in **Sindh** and **Flash Flooding** in **Rivers/Nullahs of Balochistan & Hill Torrents of D.G. Khan Division** are expected from **16th to 17th August 2022**.

7. All concerned organizations including field formation of **Provincial Irrigation Departments, PDMAs 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.

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
Tel: 051-9244604

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 14-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions August 14, 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	170,000	140,000	237,000	218,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	187,000	179,000	188,000	181,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	176,000	166,000	266,000	248,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	131,000	224,000	203,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	133,000	97,000	208,000	202,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	98,000	44,000	140,000	106,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	131,000	95,000	232,000	220,000	Low Flood (S)	650,000
River Kabul									
• Warsak	540,000				25,000		29,000	Normal	200,000
• Nowshera		450,000	29-07-2010		38,000		52,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		11,000		14,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		7,000		12,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		7,000		11,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	34,000	21,000	30,000	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	60,000	26,000	61,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	27,000	20,000	77,000	71,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	23,000	3,000	102,000	83,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	22,000	9,000	113,000	104,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	21,000	8,000	40,000	32,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		5,000		11,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		22,000		12,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	6,000	43,000	18,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	21,000	3,000	23,000	12,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	4,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	3,000	2,000	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	1518.54	1542.03	1545.70	5.827	5.427	5.581	95.78 %
Chashma	649.00	638.15	640.20	646.90	642.00	0.278	0.183	0.058	20.86 %
Mangla	1242.00	1050.00	1234.90	1202.25	1169.50	7.356	4.476	2.639	35.88 %
Total Live Storage						13.461	10.086	8.278	61.50 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	30.4 °C	33.6 °C	+ 3.2 °C
Minimum	17.4 °C	18.4 °C	+ 1.0 °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"

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.	D.G. Khan (Fort Munro)	62
2.	Khanpur	56
3.	Rahim Yar Khan	48
4.	Murree	16
5.	Bhandu Wala	06
B	Sindh	
6.	Chhor	110
7.	Jacobabad	70
8.	Rohri	68
9.	Padidan	33
10.	Dadu	32
11.	Sakrand & Sukkur	27 (each)
12.	Shaheed Benazirabad	26
13.	Karachi	[Saddar=15, Masroor=10, Faisal, Saadi Town, Kemari, Gulshan e Hadeed & Quaidabad=07 (each) and , Nazimabad=06]
14.	Khairpur & Larkana	06 (each)
C	Balochistan	
15.	Barkhan	110
16.	Sibbi	26
17.	Ormara	08
D	AJ&K	
18.	Garhi Dopatta	21
19.	Chattar Kallas	06

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