



FFC's  
**DAILY WEATHER & FLOOD SITUATION REPORT**  
**SATURDAY AUGUST 13, 2022**

Presently, **River Indus** at Kotri (the last control structure on River Indus upstream Arabian Sea) while **River Chenab** at **Marala** (first control structure on river Chenab in Pakistan) and at **Qadirabad** (Upstream Trimmu) are flowing in "**Low Flood**". Other main rivers (**Jhelum, Ravi & Sutlej** including River Indus and Chenab at rest of the control points) are flowing with Normal Flow conditions. **Annexure-I** may be seen for the latest on river inflows/ outflows, reservoir levels and storage etc. Today's Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **8.178 MAF (60.75% of 13.461 MAF)**.

2. According to FFD, Lahore, yesterday's **Well Marked Low Pressure Area** over Northeastern Arabian Sea & adjoining areas has moved Westwards and today centered over North Arabian Sea 390-Km Southwestern of Karachi as "**Depression**". A fresh **Monsoon Low** has also developed over North Bay of Bengal (India) which is likely to affect **Sindh & Balochistan** from **16<sup>th</sup> August 2022**.

3. In addition to above, Seasonal Low lies over Balochistan whereas trough of Westerly Wave earlier over Northern parts of Pakistan has moved away Eastwards. Moderate to Strong Moist currents both from Bay of Bengal & Arabian Sea are penetrating into lower half of Pakistan up to 10,000 feet.

**FFD's Ensuing 24 hours Prediction:**

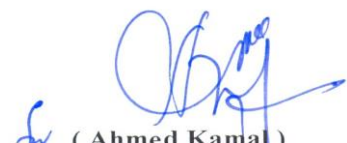
4. Scattered thunderstorm/rain of **Moderate Intensity** with **Isolated Heavy Falls** has been predicted by FFD, Lahore over **Punjab (Bahawalpur Division), Sindh, Eastern & Coastal Balochistan** besides isolated thunderstorm/rain over **Islamabad, Punjab (Rawalpindi, Multan & D.G. Khan Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I.Khan Divisions)** including over upper catchments of all the main rivers during the next 24 hours. Isolated to scattered rainfall activity is likely to continue over Pakistan for further 24 hours, which may cause **Medium to High level flooding in Hill Torrents of D.G. Khan Division (Punjab)**. In addition to this, flows are likely to increase in **River Kabul & its tributaries** after 48 hours. Reportable rainfall events during the past 24 hours may be seen at **Annexure-II**.

**FFD's Weather Outlook & Flood Forecast (14<sup>th</sup> to 20<sup>th</sup> August 2022):**

5. A strong Monsoon activity is likely to start again over **Sindh, Balochistan and Southern Punjab** from **16<sup>th</sup> 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 **16<sup>th</sup> to 17<sup>th</sup> August 2022**.

6. All concerned organizations including field formation of **Provincial Irrigation Departments, PDMAs** and **DDMAs** 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.

7. 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

**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 13-08-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions August 13, 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
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	165,000	152,000	237,000	216,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	186,000	179,000	187,000	180,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	176,000	166,000	254,000	236,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	169,000	149,000	224,000	204,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	149,000	110,000	184,000	149,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	109,000	54,000	131,000	94,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	131,000	95,000	229,000	211,000	Low Flood (R)	650,000
<b>River Kabul</b>									
• Warsak	540,000				24,000		34,000	Normal	200,000
• Nowshera		450,000	29-07-2010		35,000		50,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		11,000		14,000	Normal	150,000
• Munda (H. Works)		355,000	29-07-2010		6,000		12,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		6,000		10,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	32,000	17,000	27,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	23,000		9,000	NIL	Normal	225,000
					20,000				
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	56,000	21,000	114,000	102,000	Low Flood (S)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	27,000	20,000	99,000	92,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	20,000	NIL	128,000	109,000	Low Flood (F)	400,000
• Trimmu	875,000	943,225	08-7-1959	20,000	4,000	67,000	58,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	25,000	10,000	37,000	26,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		5,000		21,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		23,000		23,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	36,000	7,000	41,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	23,000	5,000	27,000	13,000	Normal	90,000
<b>River Sutlej</b>									
• 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	4,000	3,000	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	1514.60	1541.20	1544.70	5.827	5.379	5.523	94.78 %
Chashma	649.00	638.15	641.50	645.60	642.00	0.278	0.142	0.058	20.86 %
Mangla	1242.00	1050.00	1234.60	1201.90	1168.60	7.356	4.453	2.597	35.30 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>9.974</b>	<b>8.178</b>	<b>60.75 %</b>

**C. Skardu Temperature:**

Skardu Temperature	Last year 2021	Today 2022	Difference ( + /- )
<b>Maximum</b>	33.7 °C	33.5 °C	- 0.2 °C
<b>Minimum</b>	15.4 °C	18.4 °C	+ 3.0 °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)
<b>A</b>	<b>Punjab</b>	
1.	Khanpur	16
2.	Rahim Yar Khan	06
<b>B</b>	<b>Sindh</b>	
3.	Karachi	[Surjani Town=60, Masroor=44, University Road=43, Orangi Town=42, Nazimabad=38, North Karachi=37, Saadi Town=35, Gulshan e Maymar=31, Korangi=27, Kemari=22, Gulshan e Hadeed=20, Gadap Town=16, Jinnah Terminal=13 & DHA=12]
4.	Tando Jam	35
5.	Badin	19
6.	Chhor & Thatta	11 (each)
7.	Khairpur	08
8.	Mirpur Khas	07
<b>C</b>	<b>Balochistan</b>	
9.	Sibbi	11
10.	Chaman	07
<b>D</b>	<b>Gilgit-Baltistan</b>	
11.	Gupis	10
12.	Bagrote	07
<b>E</b>	<b>AJ&amp;K</b>	
13.	Shinkiari	05

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