



FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
MONDAY AUGUST, 08 2022

Presently, River Indus is flowing in “**Low Flood**” in **Guddu – Sukkur** reach, while rest of the main Rivers (i.e. rivers Jhelum, Chenab, Ravi, Sutlej & Kabul) are discharging Normal Flows. **Annexure-I** shows today's (0600 hours) Inflows/ Outflows of main rivers at important control structures, reservoir's storage position and Skardu temperature. Today's Combined Live Storage of the Tarbela, Mangla & Chashma is **7.908 MAF** (i.e. **58.75%** of the total **13.461 MAF**).

2. According to FFD, Lahore, yesterday's “**Well Marked Monsoon Low**” over Northwestern Bay of Bengal (India) remained stationary. Trough of Westerly Wave continues to prevail over Northeastern Afghanistan and adjoining areas with Seasonal Low lying over Northwestern Balochistan. Mild moist currents from Bay of Bengal continue to penetrate into upper parts of the country up to 4000 feet.

3. **Ensuing 24 hours Prediction:** (Source: FFD Lahore)

Scattered thunderstorm/rain of **Moderate Intensity** is expected over the upper catchment of River Indus. Isolated to scattered thunderstorm/rain may also occur over **North & Northeast Punjab** including **D.G Khan & Bahawalpur Divisions, Khyber Pakhtunkhwa, Sindh, Eastern Balochistan**, and over the upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej during the same period. Significant rainfall events reported by FFD Lahore during past 24 hours may be seen at **Annexure-II**.

4. **09th to 15th August 2022: Weather Outlook & Significant Flood Forecast** (Source: FFD Lahore)

According to FFD Lahore, monsoon activity is likely to become **VIGOROUS** from **10th to 14th August 2022** over **Sindh, Balochistan** alongwith **D.G Khan Division**. It will also affect the upper half of the country and rest of the **Southern Punjab** but with relatively less intensity from **10th to 13th of August 2022**. It may result in scattered rainfall of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** over upper catchments of all the Major Rivers and widespread rainfall of **Heavy to Very Heavy Intensity** over **Suleman Range (D.G Khan & Rajanpur districts of Punjab Province)** including **Sindh & Balochistan** from **10th to 14th August 2022**. As a consequence, heavy rains may generate:


- **Medium to High level flooding** in River Kabul & its Tributaries from **11th to 13th August 2022**.
- **Urban Flooding** in Islamabad, Punjab (Rawalpindi, Faisalabad, Lahore & Gujranwala Divisions) and Khyber Pakhtunkhwa (Peshawar, Nowshera & Mardan Divisions) from **10th to 13th August 2022**.
- **Flash Flooding** is expected in local Nullahs of Islamabad, Punjab (Rawalpindi, Shakargarh, Sialkot & Narowal), Khyber Pakhtunkhwa (Abbottabad, Mansehra, Dir, Karak, Lakki Marwat, & Bannu) and Kashmir from **10th to 13th August 2022**.
- **Urban Flooding** in Sindh (Karachi, Thatta, Badin, Hyderabad, Dadu, Jamshoro, Sukkur, Larkana, Shaheed Benazirabad & Mirpurkhas) from **11th to 14th August 2022**.
- **Flash Flooding** may also occur in Balochistan (Qilla Saifullah, Loralai, Barkhan, Kohlu, Mosa Khel, Sherani, Sibbi, Bolan, Kalat, Khuzdar, Lasbella, Awaran, Turbat, Panjgur, Pasni, Jiwani, Ormara & Gwadar) including **Hill Torrents of Dera Ghazi Khan** from **11th to 14th August 2022**.
- Catchment areas of **Rivers Ravi, Jhelum and Chenab** may receive **Heavy Downpour**, which may cause rise in water level significantly during the forecasted period.

5. All related organizations, particularly **PDMAs**, related **DDMAs, SDMA, AJK, District Administrations** and **local field formations of concerned Irrigation Departments** are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of low lying area communities, public & private property besides irrigation, drainage & flood protection infrastructure etc.

6. Pakistan Meteorological Department (PMD) is monitoring the present weather system on Round-the-Clock basis and keeping all concerned informed through FFD, Lahore.

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.


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

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, Ministry of Climate Change, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, 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 08-08-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad.

Rivers and Reservoir Positions August 08, 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	186,000	118,000	174,000	158,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	158,000	151,000	150,000	144,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	204,000	190,000	179,000	163,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	269,000	245,000	133,000	126,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	302,000	262,000	286,000	261,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	250,000	193,000	383,000	341,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	56,000	21,000	200,000	188,000	Normal	650,000
River Kabul									
• Warsak	540,000				25,000		24,000	Normal	200,000
• Nowshera		450,000	29-07-2010		41,000		39,000	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		8,000		8,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		9,000		8,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	38,000	10,000	55,000	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	57,000	22,000	64,000	38,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	29,000	21,000	41,000	35,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	32,000	12,000	39,000	20,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	40,000	24,000	50,000	43,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	63,000	48,000	77,000	66,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		6,000		10,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		25,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	39,000	11,000	48,000	30,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	33,000	7,000	23,000	13,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	17,000	4,000	12,000	6,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	4,000	2,000	12,000	11,000	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	1493.38	1538.00	1541.00	5.827	5.201	5.312	91.16 %
Chashma	649.00	638.15	645.10	645.50	648.10	0.278	0.139	0.232	83.45 %
Mangla	1242.00	1050.00	1232.40	1199.60	1163.60	7.356	4.304	2.364	32.14 %
Total Live Storage						13.461	9.644	7.908	58.75 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	30.2 °C	34.7 °C	+ 4.5 °C
Minimum	13.3 °C	5.7 °C	+ 5.7 °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**
DAILY WEATHER AND FLOOD SITUATION REPORT
MONDAY AUGUST, 08 2022

Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A	Punjab	
1.	Lahore	Johar Town=121, Punjab University=65, Gulshan e Ravi=52, City=48, Township=39, Iqbal Town=28, Samanabad=22, Gulberg=06, Luckshami=05
2.	Kasur	36
3.	Sahiwal	15
4.	Bahawalnagar	05
B	Sindh	
5.	Karachi	Gulshan-e-Hadeed=47, Quaidabad=43, Jinnah Terminal=20, Airport=09, Faisal Base=07, Saadi Town=06
6.	Sakrand	13
C	Khyber Pakhtunkhwa	
7.	Cherat	09
8.	Kakul	06
D	AJ&K	
9.	Kotli	65
10.	Haraman	12
11.	Dhulli	06

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