



**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  
MONDAY AUGUST 15, 2022**

At present River Indus is flowing in “**Medium Flood**” at **Taunsa** (due to heavy flows generated by the hill torrents i.e. **Sanghar- 268,000 cusecs, Vahava-154,000 cusecs, Kaura-95,000 cusecs and Sori Lund-78,000 cusecs** yesterday evening as reported by Punjab Irrigation Department). It is in “**Low Flood**” at **Guddu** and **Kotri** with Normal Flows at its remaining control structures. All other main rivers of Indus River System (Jhelum, Chenab, Ravi and Sutlej) are discharging Normal Flows. **Annexure-I** depicts main rivers inflows/outflows at important control structures, reservoirs storage position and Skardu temperature at 0600 hours today. Present Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **8.389 MAF** (i.e. **62.32 %** of **13.461 MAF**).

2. According to FFD, Lahore yesterday's **Well Marked Low** over North Orrisa (India) has moved in West–Northwestwards direction and today lies over North Chhattisgarh (India) and adjoining areas as **Depression**. Another **Well Marked Low** earlier over North Arabian Sea has weakened into **Low** and today lies over 100 km South of Karachi. Trough of Westerly Wave continues to prevail over Northern parts of Afghanistan with Seasonal Low lies over Northwestern Balochistan. **Moderate to Strong Moist currents** both from Bay of Bengal and Arabian Sea are penetrating into lower half of Pakistan upto 7000 feet while **Moderate to Strong moist currents** from Bay of Bengal alone are also penetrating into upper half of Pakistan upto 7000 feet.

**Next 24 hours Forecast:**

3. Scattered to widespread thunderstorm/rain of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** are expected over **Islamabad, Punjab (Rawalpindi Division) and Khyber Pakhtunkhwa (Peshawar, Kohat & Bannu Divisions)** including upper catchments of Rivers Kabul & Indus. For the same time period, **scattered to widespread thunderstorm/rain of Moderate Intensity** with **Isolated Heavy Falls** may also occur over **Punjab (Sargodha, Gujranwala, Lahore, Sahiwal, Multan, Bahawalpur & D.G. Khan Divisions), Sindh, Khyber Pakhtunkhwa (D.I. Khan Division), Eastern & Coastal Balochistan** and upper catchments of Rivers Jhelum, Chenab & Ravi, besides isolated thunderstorm/rain over rest of the country. Significant rainfall events reported by FFD, Lahore, during the past 24 hours may be seen at **Annexure-II**.

**4. Weather Outlook & Flood Forecast, 16<sup>th</sup>-22<sup>nd</sup> August 2022**

- **Moderate to Strong Monsoon Activity** is likely to continue over **Islamabad, Rawalpindi Division of Punjab, Peshawar, Kohat, Bannu & D.I. Khan Divisions of Khyber Pakhtunkhwa** including upper catchments of **Rivers Kabul, Indus, Jhelum, Chenab & Ravi** during the next **48 hours**.
- From **16<sup>th</sup> to 19<sup>th</sup> August, 2022**, a **Strong Monsoon activity** is likely to start again over **Sindh, Balochistan and Southern Punjab**.
- As a consequence:
  - ⇒ **Flash flooding** is expected in the **tributaries of Rivers Kabul & Indus** during **next 48 hours**.
  - ⇒ **Severe Flash Flooding** is expected in **Hill Torrents of D.G. Khan Division (Sori Lund, Vidore, Sakhi Sarwar, Sanghar, Vohava, Kaura & Mithawan)** including **Rivers/ Nullahs of Balochistan** during **16<sup>th</sup> to 19<sup>th</sup> August 2022**.


- ⇒ **Flows from Hill Torrents of D.G. Khan Division (Sori Lund, Vidore, Sakhi Sarwar, Sanghar, Vohava, Kaura & Mithawan) from 17<sup>th</sup> August 2022 may cause Medium to High Level Flooding in River Indus at Taunsa, Guddu & Sukkur.**
- ⇒ **Urban Flooding in Sindh from 16<sup>th</sup> to 19<sup>th</sup> August 2022.**

5. **Specific Directions For Dam/Reservoir/Barrages Management Organizations:**

In view of FFD, Lahore's above mentioned forecast for the ensuing period (16<sup>th</sup> August to 19<sup>th</sup> August 2022) Extreme Vigilance and Care needs to be exercised for effective Flood discharge routing by the Dam/Reservoir/Barrages Managers to avoid any synchronization of Flood Peaks for safe passage of Flood Flows during the above mentioned period.

6. Further to above, all concerned organizations including PDMAs/ DDMAs are strictly advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations (especially in the context of flood generating hill torrents in the areas of forecast) 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.
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.
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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.
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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.

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  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 15-08-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions August 15, 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 <sup>n</sup>
		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	171,000	99,000	249,000	219,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	176,000	169,000	197,000	190,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	178,000	166,000	257,000	238,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	161,000	132,000	400,000	394,000	Med Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	126,000	90,000	264,000	261,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	89,000	40,000	192,000	162,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	127,000	91,000	223,000	210,000	Low Flood (F)	650,000
<b>River Kabul</b>									
• Warsak	540,000				24,000		32,000	Normal	200,000
• Nowshera		450,000	29-07-2010		37,000		42,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		13,000		14,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		11,000		9,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		6,000		9,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	28,000	20,000	70,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	15,000	12,000	7,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	60,000	26,000	90,000	72,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	36,000	29,000	76,000	69,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	27,000	7,000	65,000	46,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	22,000	9,000	122,000	113,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	20,000	7,000	40,000	31,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		4,000		8,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		9,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	34,000	6,000	35,000	9,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	1,000	21,000	9,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	3,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	2,000	1,000	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	1522.46	1543.41	1546.70	5.827	5.505	5.638	96.76 %
Chashma	649.00	638.15	641.60	647.20	642.00	0.278	0.194	0.058	20.86 %
Mangla	1242.00	1050.00	1235.30	1202.50	1170.60	7.356	4.492	2.693	36.61 %
<b>Total Live Storage</b>						<b>13.461</b>	<b>10.191</b>	<b>8.389</b>	<b>62.32 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
<b>Maximum</b>	29.3 °C	35.6 °C	+ 6.3 °C
<b>Minimum</b>	14.4 °C	18.5 °C	+ 4.1 °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>A</b>	<b>Punjab</b>	
1.	Kasur	65
2.	Islamabad	59
3.	Hafizabad	52
4.	Lahore	49
5.	Sialkot	47
6.	Daulatnagar	46
7.	DG Khan	42
8.	Sharqpur	38
9.	Murree	29
10.	Dhulli	23
11.	Bhakkar & Layyah	14 each
12.	Haraman	13
13.	Jhelum	12
14.	GS Wala & Marala	10 each
15.	Kot Addu & Mandibahauddin	09 each
16.	Gujrat	07
<b>B</b>	<b>Sindh</b>	
17.	Sakrand	30
18.	Moin-Jo-Daro	16
19.	Badin & Thatta	11 each
20.	Mirpur Khas	09
21.	Tando Jam	08
22.	Larkana & Hyderabad	07 each
<b>C</b>	<b>Balochistan</b>	
23.	Sibbi	42
24.	Barkhan	22
25.	Kalat	13
26.	Zhob & Mastung	07 each
<b>D</b>	<b>Khyber Pakhtunkhwa</b>	
27.	Buner & D.I.Khan	48 each
28.	Takht Bai	38
29.	Mardan	37
30.	Mamad Gut	36
31.	Kakul	29
32.	Dir	28
33.	Malam Jabba	23
34.	Lower Dir	22
35.	Parachinar	21
36.	Mohmand Dam	15
37.	Balakot	09
38.	Daggar	08
<b>E</b>	<b>AJ&amp;K</b>	
39.	Garhi Dopatta	66
40.	Kotli	32
41.	Hajira	27
42.	Chattar Kallas	25
43.	Bandi Abbaspur & Rawalakot	22 each
44.	Muzaffarabad	20

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