



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
SATURDAY, JULY 30 2022

Due to a reasonable increase of inflows into Tarbela Reservoir on account of appreciable rainfall observed over its catchment area during the last 24 hours coupled with snow melt rise on account of mild increase in Skardu Temperature since yesterday (from 31.7 °C to 32.6 °C), **River Indus** is in **Low Flood** at **Tarbela**. It is also in **Low Flood** in **Chashma-Taunsa, Taunsa-Guddu** and **Guddu-Sukkur** reaches. **River Kabul** is in **High Flood** at **Nowshera** whereas it is in **Low Flood** at **Warsak**.

2. The water level in **River Chenab** has receded and at present, it is flowing with '**Normal Discharges**'. Other main rivers (Jhelum, Ravi & Sutlej) are also discharging Normal Flows. The inflows/outflows of main rivers at important control structures and major reservoir's water levels & storage position may be seen at **Annexure-I**. Today's Combined Live Storage of Tarbela, Chashma & Mangla reservoirs is **6.308 MAF (46.86% of 13.461 MAF)**.

3. Yesterday's Trough of **Westerly Wave** continues to prevail over Northeastern Afghanistan & adjoining areas. **Seasonal Low** has moved from Western parts of Balochistan and today persists over Northeastern Balochistan. "**Light to Moderate**" moist currents from Arabian Sea are penetrating into upper parts of Pakistan upto 5000 feet (Source: FFD, Lahore).


4. For the ensuing 24 hours, FFD, Lahore has predicted scattered to widespread thunderstorm/rain with "**Scattered Heavy Falls and Isolated Very Heavy Falls**" over **Islamabad, Punjab (Rawalpindi, Sargodha & Gujranwala Divisions)** and **Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)**. For the same time span, scattered thunderstorm/rain of "**Moderate Intensity**" with "**Isolated Heavy Falls**" is also expected over **Punjab (Lahore, Faisalabad, Sahiwal, Multan & D.G. Khan Divisions)**, and **Eastern Balochistan** including upper catchments of all the major rivers of Indus River System. Isolated thunderstorm/rain may also occur over rest of the country during the next 24 hours. During the past 24 hours, Punjab, Khyber Pakhtunkhwa, Balochistan and AJ&K have experienced fairly widespread rains as reflected in **Annexure-II**.

5. As per FFD, Lahore, the current wet spell is likely to continue for further next 24 hours. As a consequence, **High to Very High Flood Situation** is expected in **River Kabul at Nowshera & its Tributaries** during next 48 hours whereas **Hill Torrents of D.G. Khan** may also experience **Low to Medium Floods** during this period.

6. For the period from **31st July to 6th August 2022**, FFD, Lahore has also predicted scattered thunderstorm/ rain of "**Moderate Intensity**" with "**Isolated Heavy Falls**" over the upper catchments of Rivers Jhelum, Chenab, Ravi & Sutlej and hence **River Indus and its Tributaries** may experience **Medium to High Level Flooding** during the next 72 hours.

7. All related organizations, particularly PDMAs, SDMA, GBDMA, related DDMA's, District Administration 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.

8. Pakistan Meteorological Department (PMD), Islamabad through FFD, Lahore is constantly monitoring the present weather system in the country and is keeping all concerned fully informed.


(Ahmed Kamal)
For 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, 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 30-07-2022

Copy for information to:

PS to CEA/ CFFC, Islamabad

Rivers and Reservoir Positions July 30, 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	340,000	252,000	323,000	262,000	Low Flood (R)	650,000
• Kalabagh	950,000	950,000	14-7-1942	266,000	260,000	241,000	238,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	308,000	299,000	336,000	328,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	186,000	165,000	274,000	269,000	Low Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	153,000	111,000	291,000	268,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	101,000	47,000	275,000	241,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	56,000	18,000	118,000	91,000	Normal	650,000
River Kabul									
• Warsak	540,000				42,000		48,000	Low Flood (R)	200,000
• Nowshera		450,000	29-07-2010		73,000		101,000	High Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		21,000		21,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		16,000		23,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		11,000		26,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	50,000	8,000	55,000	12,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	10,000	NIL	11,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	98,000	76,000	98,000	83,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	102,000	96,000	97,000	90,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	114,000	94,000	107,000	88,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	69,000	53,000	94,000	86,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	31,000	16,000	102,000	99,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		18,000		21,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		31,000		27,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	53,000	24,000	33,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	24,000	8,000	24,000	23,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	15,000	2,000	12,000	7,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	2,000	1,000	9,000	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	1465.35	1512.36	1527.00	5.827	3.852	4.550	78.08 %
Chashma	649.00	638.15	648.00	639.50	639.00	0.278	0.017	0.010	3.60 %
Mangla	1242.00	1050.00	1229.00	1187.60	1149.30	7.356	3.595	1.748	23.76 %
Total Live Storage						13.461	7.464	6.308	46.86 %

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ / -)
Maximum	35.4 °C	32.6 °C	-2.8 °C
Minimum	20.4 °C	17.6 °C	-2.8 °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 freeboard

"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)
A	Punjab	
1.	Lahore	Luckshami=103, Shahi Qilla=83, Shahdara=75, Samanabad=70, Mughal Pura=67, Misri Shah=56, Gulshan e Ravi=50, Upper Mall=50, Gulberg=42, Jail Road=41, Iqbal Town=37 and Taj Pura=20
2.	Mangla	65
3.	Attock	58
4.	Jhelum	55
5.	Bahawalnagar	50
6.	Kamra (Airbase)	35
7.	Kallar	34
8.	Islamabad	Chaklala (Airbase)=31, Bokra=27, Golra=26, Zeropoint=25, Shamsabad=23 & Saidpur=20
9.	Khanewal	31
10.	Murree	25
11.	Haraman	14
12.	Narowal, Daulatnagar and G.S. Wala	12 each
B	Khyber Pakhtunkhwa	
13.	Takht Bai	126
14.	Mardan	120
15.	Mohmand Dam	85
16.	Ghalanai	71
17.	Mamad Gut	38
18.	Tarbela	20
19.	Khaar-Bajaur	15
20.	Kakul	13
21.	Risalpur	12
C	Balochistan	
22.	Kalat	50
23.	Chaman	26
24.	Ziarat	21
25.	Muslim Bagh and Quetta (Samungli)	11 each
D	A J & K	
26.	Palandri	55
27.	Rawalakot	23
28.	Phulra	18
29.	Daggar	17

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