



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission

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FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
FRIDAY, JULY 28, 2023

While major reservoirs in the country (Tarbela & Mangla) are approaching fast their maximum storage levels, PMD has forecasted more rains in the upper catchments of major rivers, as well as in the hill torrents regions of the country during the next 24 hours. Flood peaks, presently propagating in the Indus River System, may become violent due to contribution of likely torrential flash flooding. Owing to climate change, localized rainfall extremes causing urban flooding have also become recurrent as experienced during the ongoing monsoon season.

2. **Tarbela Reservoir** has attained water level of **1532.68 feet** i.e. **17.32 feet** below against its Maximum Conservation Level (MCL) of **1550 feet** whereas **Mangla Reservoir** is at an elevation of **1223.65 feet (18.36 feet)** below its **MCL: 1242.00 feet**. In view of higher water levels, Tarbela Dam Management and Flood Mitigation Committee (FMC) of Mangla Dam are advised to remain vigilant and ensure filling of reservoirs as per approved SOPs and dam safety guidelines.

3. Presently, **River Indus** is experiencing **Medium Flood** in **Taunsa-Guddu reach** whereas it is in **Low Flood** situation at four locations (**Tarbela-Kalabagh-Chashma & Sukkur**). **River Sutlej** at **Head Suleimanki** is also flowing in **Medium Flood**. **River Chenab** at **Marala**, **Ravi** in **Balloki-Sidhnai Reach** and **Kabul** at **Nowshera**, are presently flowing in **Low Flood**. **River Jhelum** is discharging **Normal flows**. **Annexure-I** is referred.

4. Yesterday's Well-Marked Low-Pressure Area over South Orissa (India) moved towards North and weakened into **Low**; it is likely to move away Northeast wards and become insignificant for the country. Weak **Seasonal Low** today prevails over **North-West of Balochistan**. Light to moderate moist currents from **Bay of Bengal & Arabian Sea** are penetrating into upper parts of the country upto 5,000 feet. Trough of **Westerly Wave** earlier over Northeastern Afghanistan today lies over **Northern parts** of the country.

5. **Forecast-Next 24 Hours:**

- **Scattered to Widespread Wind Thunderstorm/ Rain of Moderate Intensity** with **Isolated Heavy Falls** is expected over the upper catchment of **Rivers Kabul and Indus** alongwith **Lahore & Gujranwala Divisions** (lower part of upper catchment).
- **Scattered Wind Thunderstorm/Rain of Moderate Intensity** are expected over upper catchments of Rivers **Jhelum, Chenab, Ravi & Sutlej** alongwith **Islamabad and Peshawar, Kohat, Bannu, D.I. Khan, Rawalpindi, Multan, D.G. Khan, Zhob, Loralai, Kalat, Sibbi, Makran & Nasirabad Divisions**.
- **Isolated wind thunderstorm/ rain of light to moderate intensity** may occur over **Sargodha & Bahawalpur Divisions** of the **Punjab**.

For **Rainfall-Preceding 24 hours**, **Annexure-II** is referred for details.

6. **Flood Forecast-Next 24-72 Hours:**

As per PMD, Wet spell is likely to decrease during the next 48 hours. However, the prevailing weather situation may result into **Moderate to Heavy Flash flooding** in **River Kabul** at **Nowshera** including its tributaries & **Hill Torrents of D.G. Khan Division** during the next **24 hours**. Due to combining effect of downstream discharges from Taunsa and Panjnad, **River Indus at Guddu and Sukkur** may attain **high flood level** on **30th July** and **31st July 2023** respectively.

7. All concerned organizations especially the dam management organizations (Tarbela on Indus, Mangla on Jhelum) are advised to remain **Alert & Vigilant**, take prompt actions on warnings issued, to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage, flood protection & river training infrastructure etc.

8. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD) through FFD, Lahore and is keeping all concerned organizations fully cognizant of the situation.


(Ahmed Kamal)
Chief Engineering Advisor/Chairman FFC

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)/2023, dated 28-07-2023

Rivers and Reservoir Positions July 28, 2023 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 | 293,000 | 214,000 | 271,000 | 255,000 | Low Flood (F) | 650,000 |
| • Kalabagh | 950,000 | 950,000 | 14-7-1942 | 164,000 | 161,000 | 298,000 | 290,000 | Low Flood (F) | 650,000 |
| • Chashma Reservoir | 950,000 | 1,036,673 | 01-8-2010 | 262,000 | 254,000 | 339,000 | 335,000 | Low Flood (F) | 650,000 |
| • Taunsa | 1,000,000 | 959,991 | 02-8-2010 | 250,000 | 245,000 | 420,000 | 420,000 | Med Flood (R) | 650,000 |
| • Guddu | 1,200,000 | 1,199,672 | 15-8-1976 | 313,000 | 292,000 | 379,000 | 369,000 | Med Flood (R) | 700,000 |
| • Sukkur | 900,000 | 1,161,000 | 16-8-1976 | 269,000 | 248,000 | 325,000 | 290,000 | Low Flood (R) | 700,000 |
| • Kotri | 875,000 | 981,000 | 14-8-1956 | 98,000 | 79,000 | 120,000 | 87,000 | Normal | 650,000 |
| River Kabul | | | | | | | | | |
| • Warsak | 540,000 | | | | 40,000 | | 38,000 | Normal | 200,000 |
| • Nowshera | | | | | 67,000 | | 60,000 | Low Flood (F) | 200,000 |
| River Swat | | | | | | | | | |
| • Chakdara Bridge | | | | | 17,000 | | 14,000 | Normal | 150,000 |
| • Munda(H. Works) | | | | | 12,000 | | 20,000 | Normal | 150,000 |
| • Charsadda Road | 150,000 | | | | 15,000 | | 19,000 | Normal | 100,000 |
| River Jhelum | | | | | | | | | |
| • Mangla Reservoir | 1,060,000 | 1,090,000 | 10-9-1992 | 30,000 | 10,000 | 63,000 | 10,000 | Normal | 225,000 |
| • Rasul | 850,000 | 952,170 | 10-9-1992 | 10,000 | NIL | 8,000 | 5,000 | Normal | 225,000 |
| River Chenab | | | | | | | | | |
| • Marala | 1,100,000 | 1,100,000 | 26-8-1957 | 95,000 | 80,000 | 127,000 | 110,000 | Low Flood (R) | 400,000 |
| • Khanki | 1,100,000 | 1,086,460 | 27-8-1959 | 126,000 | 120,000 | 96,000 | 89,000 | Normal | 400,000 |
| • Qadirabad | 900,000 | 948,530 | 11-9-1992 | 86,000 | 67,000 | 77,000 | 67,000 | Normal | 400,000 |
| • Trimmu | 875,000 | 943,225 | 08-7-1959 | 100,000 | 92,000 | 88,000 | 79,000 | Normal | 450,000 |
| • Panjnad | 865,000 | 802,516 | 17-8-1973 | 75,000 | 73,000 | 106,000 | 97,000 | Normal | 450,000 |
| River Ravi | | | | | | | | | |
| • Jassar | 275,000 | 680,000 | 05-10-1955 | | 9,000 | | 49,680 | Normal | 150,000 |
| • Shahdara | 250,000 | 680,000 | 22-9-1988 | | 5,000 | | 32,000 | Normal | 135,000 |
| • Balloki | 380,000 | 336,200 | 28-9-1988 | 36,000 | 18,000 | 60,000 | 47,000 | Low Flood (R) | 135,000 |
| • Sidhnai | 150,000 | 330,210 | 02-10-1988 | 23,000 | 22,000 | 41,000 | 33,000 | Low Flood (R) | 90,000 |
| River Sutlej | | | | | | | | | |
| • G.S. Wala | | | | | | Gauge 19.10 | 57,000 | Normal | |
| • Suleimanki | 325,000 | 598,872 | 08-10-1955 | 13,000 | 6,000 | 84,000 | 84,000 | Med Flood (S) | 175,000 |
| • Islam | 332,000 | 492,581 | 11-10-1955 | 11,000 | 10,000 | 39,000 | 39,000 | 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) |
|---------------------------|--------------------------------------|-----------------------------------|--------------------------|---------|---------|--------------------|--------------|---------------|---|
| | | | 2021 | 2022 | 2023 | Maximum | Last Year | Today | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tarbela | 1550.00 | 1402.00 | 1502.36 | 1521.00 | 1532.68 | 5.809 | 4.235 | 4.832 | 83.18 % |
| Chashma | 649.00 | 638.15 | 643.80 | 639.00 | 638.50 | 0.278 | 0.010 | 0.004 | 01.44 % |
| Mangla | 1242.00 | 1050.00 | 1183.60 | 1143.30 | 1223.65 | 7.356 | 1.523 | 5.950 | 80.89 % |
| Total Live Storage | | | | | | 13.443 | 5.768 | 10.786 | 80.24 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2022 | Today 2023 | Difference (+ / -) |
|--------------------|----------------|------------|----------------------|
| Maximum | 32.6 °C | 28.1 °C | - 4.5 °C |
| Minimum | 17.3 °C | 17.3 °C | 0.0 °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 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: (applied on downstream discharge/Outflow)

* (R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours.

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Significant Rainfall Events during the Past 24 Hours

| Sr. No. | City/Observatory | Rainfall (mm) |
|----------|---------------------------|---|
| A | Punjab | |
| 1. | Lahore | (Township-56, Mughalpura-08, Tajpura-07) |
| 2. | Attock | 47 |
| 3. | Kasur | 42 |
| 4. | Islamabad | [Chaklala Airbase-40, Bokra-35, Saidpur & Zeropoint-29(each), Shamsabad-28, Golra-19, New Airport-18] |
| 5. | Haraman | 33 |
| 6. | Rahim Yar Khan | 21 |
| 7. | Murree | 20 |
| 8. | Sialkot | 07 |
| B | Khyber Pakhtunkhwa | |
| 9. | Takht Bai | 106 |
| 10. | Mardan | 94 |
| 11. | Daggar | 86 |
| 12. | Shinkiari | 62 |
| 13. | Kamra | 61 |
| 14. | Balakot | 60 |
| 15. | Tarbela | 56 |
| 16. | Besham | 51 |
| 17. | Saidu Shari | 38 |
| 18. | Risalpur | 29 |
| 19. | Bosak Bidge & Buner | 28 (each) |
| 20. | Oghi | 25 |
| 21. | Malam Jabba | 21 |
| 22. | Pattan & Kalam | 12(each) |
| 23. | Khawagoobo Brigo & Dir | 10(each) |
| 24. | Kakul & Lower Dir | 06(each) |
| 25. | Cherat | 05 |
| C | Sindh | |
| 26. | Rohri | 37 |
| 27. | Sukkur & Larkana | 25 each |
| 28. | Moin-Jo-Daro | 20 |
| 29. | Jacobabad | 18 |
| D | Balochistan | |
| 30. | Muslim Bagh | 38 |
| 31. | Jamli Baloch | 37 |
| 32. | Khuzdar | 19 |
| 33. | Mastung | 10 |
| 34. | Ziarat & Sibbi | 05 |
| E | AJ&K | |
| 34. | Muzaffarabad | (City-79, Airport-65) |
| 35. | Domel | 69 |
| 36. | Kotli | 24 |
| 37. | Garhi Dopatta | 19 |
| 38. | Chattar Kallas | 18 |
| 39. | Rawalakot | 06 |

Source: F] (042-99200139)