



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  
SUNDAY, JULY 28, 2024

At present there is no riverine flood condition in the country, as all major rivers of the Indus River System (IRS) including the Indus, Jhelum, Chenab, Ravi & Sutlej are currently experiencing normal flow conditions. Detailed information on the Inflows/ Outflows of major rivers at important control structures, water levels and storage position of reservoirs alongwith the temperature at Skardu is provided in **Annexure-I**. The current Combined Live Storage of the country's major reservoirs (Tarbela, Mangla & Chashma) stands at **8.317 MAF (62.44%** of the total live storage capacity of **13.321 MAF**). Last year, it was **10.786 MAF (80.24%** of **13.443 MAF**).

2. According to FFD, Lahore, yesterday's trough of Strong Westerly Wave over Northeastern Iran and adjoining areas today lies over Northwestern Afghanistan. Yesterday's Monsoon Low over Northern Odisha (India), moved westward and today lies over Eastern Madhya Pradesh (India) and has intensified into Well-Marked Monsoon Low. There is possibility of interaction between Westerly Wave and monsoon winds from 29<sup>th</sup> July to 1<sup>st</sup> August 2024. Mild Moist Currents are penetrating into the upper parts of Pakistan from both the Arabian Sea and Bay of Bengal up to 3000 feet. It is likely to become strong during 29<sup>th</sup> July to 1<sup>st</sup> August 2024. Core of the Jetstream lies over northern of Afghanistan, with wind speeds more than 110 knots, is likely to approach upper parts of Pakistan from 30<sup>th</sup> July 2024. This may enhance the rainfall activity over Pakistan. Speed divergence in Arabian Sea and lower half of Pakistan and speed convergence over upper half of Pakistan may produce **Very Heavy Rainfall** over upper half of Pakistan. Well Marked Seasonal Low lies over Northwestern Balochistan.

**Weather Forecast for the Next 24-hours:**

3. FFD, Lahore, has predicted **Scattered Thunderstorm Rain of Moderate Intensity with Isolated Heavy Falls** over Islamabad, Punjab (Rawalpindi, Sargodha, Lahore & Gujranwala Divisions) including the Upper Catchments of **Rivers Jhelum, Chenab, Ravi and Sutlej**. **Isolated Thunderstorm/Rain of Light to Moderate Intensity** is expected over Punjab (DG Khan & Bahawalpur Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat & Bannu Divisions) and Balochistan (Sibbi & Nasirabad Divisions) including the Upper Catchments of **Rivers Indus and Kabul** during the same period. Significant rainfall event reported during past 24 hours may be seen at **Annexure-II**.

**Weather Outlook during 29<sup>th</sup> July to 1<sup>st</sup> August 2024:**

4. **Widespread Thunderstorm Rain of Moderate to Heavy Intensity with Scattered Very Heavy Falls and Isolated Extremely Heavy Rainfall** is expected over **Khyber Pakhtunkhwa, Islamabad and Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore & DG Khan Divisions)** including the upper catchments of all the major rivers. **Scattered Thunderstorm Rain with Isolated Heavy Falls** is also expected over **Sindh, Punjab (Multan, Bahawalpur, Sahiwal & Faisalabad Divisions)** and **Balochistan (Zhub, Sibbi & Nasirabad Divisions)** (Source: FFD, Lahore).

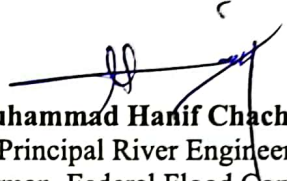
**Flood Forecast for 29<sup>th</sup> July to 4<sup>th</sup> August 2024:**

5. As a result of current meteorological situation over the country **Medium to High Level Flood** is expected in **Rivers Jhelum Upstream Mangla, Kabul and its tributaries & Chenab at Marala, Khanki**

and Qadirabad alongwith nullahs of Rivers Ravi and Chenab catchments. Low to Medium level Flood is expected in River Indus at Tarbela, Hill torrents of DG Khan Division and nullahs of Balochistan (Zhob, Sibbi, Nasirabad, and Kalat Divisions).

6. In view of the above, all concerned organizations including PDMAs/ DDMA's 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 & river training infrastructure etc.

7. Pakistan Meteorological Department (PMD), Islamabad through its specialized Flood Forecasting Unit (FFD, Lahore) is closely monitoring the prevailing weather system and is keeping all concerned organizations fully cognizant of the situation.

  
(Muhammad Hanif Chachar)  
Principal River Engineer

For, Chairman, Federal Flood Commission

**Distribution:**

1. Chairman, Senate Standing Committee on Water Resources, Parliament House, Islamabad
2. Minister for Water Resources, Islamabad.
3. Minister for Planning, Development & Special Initiatives, Islamabad
4. Minister for Climate Change & Environmental Coordination, Islamabad.
5. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
6. Secretary, Ministry of Water Resources, Islamabad.
7. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
8. Secretary, Ministry of Climate Change & Environmental Coordination, Islamabad.
9. Secretary, Ministry of National Food Security & Research, Islamabad.
10. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
11. Secretary, Senate Standing Committee on Water Resources, Parliament House, Islamabad.
12. Chairman, National Disaster Management Authority, Islamabad.
13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chief Executive Officer, Pakistan Railways, Lahore.
15. Chairman, Indus River System Authority, Islamabad.
16. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
17. Chairman, National Highway Authority, Islamabad.
18. Director General, Pakistan Meteorological Department, Islamabad.
19. Member (Water), WAPDA, WAPDA House, Lahore.
20. Member (Infrastructure), Planning Commission, Islamabad.
21. Chief Secretary, Government of the Punjab, Lahore.
22. Chief Secretary, Government of Sindh, Karachi.
23. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
24. Chief Secretary, Government of Balochistan, Quetta.
25. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
26. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
27. Secretary, Irrigation Department, Government of the Punjab, Lahore.
28. Secretary, Irrigation Department, Government of Sindh, Karachi
29. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar
30. Secretary, Irrigation Department, Government of Balochistan, Quetta.
31. Secretary, Irrigation and Water Management, Gilgit-Baltistan, Gilgit.
32. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.



33. Chief Engineer (Merged Areas), Irrigation Department, Government of K.P, Peshawar.
34. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
35. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
36. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
37. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
38. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
39. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
40. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
41. Director General, Gilgit Baltistan Disaster Management Authority, Gilgit.
42. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
43. Chief Commissioner, ICT, Islamabad.
44. Chairman, Capital Development Authority, Islamabad.
45. Commissioner, Rawalpindi.
46. Managing Director, WASA, Rawalpindi.
47. Principal Information Officer, Press Information Department, Islamabad.
48. Director (News), Associated Press of Pakistan, Islamabad.
49. Director (News), Pakistan Television, Islamabad.
50. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
51. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

**U.O. No. FC-I (31)/2024, dated 28-07-2024**

## Rivers and Reservoir Positions July 28, 2024 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  | 271,000        | 255,000 | 233,000                                     | 200,000 | Normal                | 650,000                                 |
| • Kalabagh          | 950,000           | 950,000                                  | 14-7-1942  | 298,000        | 290,000 | 220,000                                     | 220,000 | Normal                | 650,000                                 |
| • Chashma Reservoir | 950,000           | 1,036,673                                | 01-8-2010  | 339,000        | 335,000 | 252,000                                     | 235,000 | Normal                | 650,000                                 |
| • Taunsa            | 1,000,000         | 959,991                                  | 02-8-2010  | 420,000        | 420,000 | 223,000                                     | 197,000 | Normal                | 650,000                                 |
| • Guddu             | 1,200,000         | 1,199,672                                | 15-8-1976  | 379,000        | 369,000 | 183,000                                     | 144,000 | Normal                | 700,000                                 |
| • Sukkur            | 900,000           | 1,161,000                                | 16-8-1976  | 325,000        | 290,000 | 125,000                                     | 74,000  | Normal                | 700,000                                 |
| • Kotri             | 875,000           | 981,000                                  | 14-8-1956  | 120,000        | 87,000  | 77,000                                      | 36,000  | Normal                | 650,000                                 |
| <b>River Kabul</b>  |                   |  |            |                |         |   |         |                       |   |
| • Warsak            | 540,000           |  |            |                | 38,000  |   | 38,000  | Normal                | 200,000                                 |
| • Nowshera          |                   |  |            |                | 60,000  |   | 51,000  | Normal                | 200,000                                 |
| <b>River Swat</b>   |                   |  |            |                |         |   |         |                       |   |
| • Chakdara Bridge   |                   |  |            |                | 14,000  |   | 9,000   | Normal                | 150,000                                 |
| • Munda( H. Works)  |                   |  |            |                | 20,000  |   | 8,000   | Normal                | 150,000                                 |
| • Charsadda Road    | 150,000           |  |            |                | 19,000  |   | 10,000  | Normal                | 100,000                                 |
| <b>River Jhelum</b> |                   |  |            |                |         |   |         |                       |   |
| • Mangla Reservoir  | 1,060,000         | 1,090,000                                | 10-9-1992  | 63,000         | 10,000  | 24,000                                      | 12,000  | Normal                | 225,000                                 |
| • Rasul             | 850,000           | 952,170                                  | 10-9-1992  | 8,000          | 5,000   | 9,000                                       | NIL     | Normal                | 225,000                                 |
| <b>River Chenab</b> |                   |  |            |                |         |   |         |                       |   |
| • Marala            | 1,100,000         | 1,100,000                                | 26-8-1957  | 127,000        | 110,000 | 71,000                                      | 44,000  | Normal                | 400,000                                 |
| • Khanki            | 1,100,000         | 1,086,460                                | 27-8-1959  | 96,000         | 89,000  | 48,000                                      | 40,000  | Normal                | 400,000                                 |
| • Qadirabad         | 900,000           | 948,530                                  | 11-9-1992  | 77,000         | 67,000  | 50,000                                      | 30,000  | Normal                | 400,000                                 |
| • Trimmu            | 875,000           | 943,225                                  | 08-7-1959  | 88,000         | 79,000  | 35,000                                      | 19,000  | Normal                | 450,000                                 |
| • Panjnad           | 865,000           | 802,516                                  | 17-8-1973  | 106,000        | 97,000  | 13,000                                      | NIL     | Normal                | 450,000                                 |
| <b>River Ravi</b>   |                   |  |            |                |         |   |         |                       |   |
| • Jassar            | 275,000           | 680,000                                  | 05-10-1955 |                | 49,680  |   | 5,000   | Normal                | 150,000                                 |
| • Shahdara          | 250,000           | 680,000                                  | 22-9-1988  |                | 32,000  |   | 15,000  | Normal                | 135,000                                 |
| • Balloki           | 380,000           | 336,200                                  | 28-9-1988  | 60,000         | 47,000  | 42,000                                      | 13,000  | Normal                | 135,000                                 |
| • Sidhnai           | 150,000           | 330,210                                  | 02-10-1988 | 41,000         | 33,000  | 26,000                                      | 10,000  | Normal                | 90,000                                  |
| <b>River Sutlej</b> |                   |  |            |                |         |   |         |                       |   |
| • Suleimanki        | 325,000           | 598,872                                  | 08-10-1955 | 84,000         | 84,000  | 17,000                                      | 4,000   | Normal                | 175,000                                 |
| • Islam             | 332,000           | 492,581                                  | 11-10-1955 | 39,000         | 39,000  | 3,000                                       | 1,000   | Normal                | 175,000                                 |

### B. Reservoir Storage Position:

| Reservoir                 | Maximum Conservation Level (FL-AMSL) | Minimum Operating Level (FL-AMSL) | Water Level ( Feet-AMSL) |         |         | Live Storage (MAF) |               |              | Present Storage (%age of total storage) |
|---------------------------|--------------------------------------|-----------------------------------|--------------------------|---------|---------|--------------------|---------------|--------------|---|
|                           |                                      |                                   | 2022                     | 2023    | 2024    | Maximum            | Last Year     | Today        |   |
| 1                         | 2                                    | 3                                 | 4                        | 5       | 6       | 7                  | 8             | 9            | 10                                      |
| Tarbela                   | 1550.00                              | 1402.00                           | 1521.00                  | 1532.68 | 1517.78 | 5.766              | 4.832         | 4.017        | 69.67 %                                 |
| Chashma                   | 649.00                               | 638.15                            | 639.00                   | 638.50  | 643.00  | 0.278              | 0.004         | 0.078        | 28.06 %                                 |
| Mangla                    | 1242.00                              | 1050.00                           | 1143.30                  | 1223.65 | 1199.55 | 7.277              | 5.950         | 4.222        | 58.02 %                                 |
| <b>Total Live Storage</b> |                                      |                                   |                          |         |         | <b>13.321</b>      | <b>10.786</b> | <b>8.317</b> | <b>62.44 %</b>                          |

### C. Skardu Temperature:

| Skardu Temperature | Last year 2023 | Today 2024 | Difference ( + / - ) |
|--------------------|----------------|------------|----------------------|
| Maximum            | 28.1 °C        | 36.4 °C    | + 8.3 °C             |
| Minimum            | 17.3 °C        | 17.4 °C    | + 0.1 °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 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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SUNDAY, JULY 28, 2024**

**Significant Rainfall Events during the Past 24 Hours**

| Sr. No.  | City/Observatory          | Rainfall (mm)   |
|----------|---------------------------|---|
| <b>A</b> | <b>Punjab</b>             |   |
| 1.       | Tarbela                   | 89  |
| 2.       | Islamabad                 | (Saidpur=84, Golra=40, Zeropoint=39, Head Quarter=37, New Airport=33, Kacheri=31, Bokra=30 & Chaklala (Airbase)=28) |
| 3.       | Gujrat                    | 52  |
| 4.       | Sialkot (Airport)         | 47  |
| 5.       | Mandibahauddin            | 35  |
| 6.       | Mangla                    | 06  |
| <b>B</b> | <b>Khyber Pakhtunkhwa</b> |   |
| 7.       | Kakul                     | 41  |
| 8.       | Takht Bai                 | 20  |
| 9.       | Daggar                    | 17  |
| 10.      | Balakot                   | 13  |
| <b>C</b> | <b>Balochistan</b>        |   |
| 11.      | Barkhan                   | 24  |
| <b>D</b> | <b>AJ&amp;K</b>           |   |
| 12.      | Bandi Abbaspur            | 117   |
| 13.      | Bamala                    | 95  |
| 14.      | Dhulli                    | 23  |
| 15.      | Domel                     | 18  |
| 16.      | Panjera                   | 12  |
| 17.      | Rawalakot                 | 09  |

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

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