



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
THURSDAY, AUGUST 01, 2024

Owing to increased upstream flow due to persistent higher temperatures at Skardu, at present River Indus is experiencing "**Low Flood**" in its **Kalabagh-Chashma** reach besides River Kabul in **Warsak-Nowshera** reach. Others main rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej) are discharging Normal Flows. **Annexure-I** depicts main rivers inflows/outflows at important control structures, reservoirs storage position besides Skardu temperature. Today's Combined Live Storage of country's three major reservoirs (Tarbela, Chashma & Mangla) is **9.203 MAF** (i.e. **69.09 %** of **13.321 MAF** compared to **85.44% of 13.443** last year).

2. According to FFD, Lahore, trough of Westerly Wave that was over Kashmir yesterday has shifted eastwards and now a fresh trough of Strong Westerly Wave is present over Northern Iran and adjoining areas. The Low-Pressure Area that was over northwest Uttar Pradesh (India) has moved slightly Westwards and is now over East Haryana (India), while upper air circulation persists over West Bengal. Further, a Well-Marked Seasonal Low is situated over Northeastern Balochistan. Also moderate to strong moist currents from both the Arabian Sea and the Bay of Bengal are penetrating into the upper parts of Pakistan up to 5000 feet.

3. For the ensuing 24 hours, **Widespread** thunderstorm rain of **Moderate to Heavy Intensity** with **Scattered Very Heavy Falls** and isolated **Extremely Heavy Rainfall** is expected over **Punjab (Lahore & Gujranwala Divisions)** including upper catchments of rivers Sutlej, Ravi & Chenab. During the same period, **scattered to widespread** thunderstorm rain of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** may occur over **Islamabad, Punjab (Rawalpindi, Sargodha, Multan, D.G.Khan, Bahawalpur, Sahiwal & Faisalabad Divisions)** and **Khyber Pakhtunkhwa** including upper catchments of rivers Indus, Kabul & Jhelum (Source: FFD, Lahore).

4. During the past 24 hours Lahore and Gujranwala experienced extremely heavy rainfall (Refer to **Annexure-II** for details).

Next Seven (07) Day Weather Outlook and Flood Forecast:


5. As per FFD Alert, **Widespread** thunderstorm rain of **Moderate to Heavy Intensity** with **Scattered Very Heavy Falls** and isolated **Extremely Heavy Rainfall** is expected over **Gujranwala, Lahore & D.G.Khan Divisions of Punjab, Khyber Pakhtunkhwa and Balochistan** including upper catchments of rivers Sutlej, Ravi & Chenab during the next three (03) days. During this period, there is also the likelihood of **Scattered to Widespread** thunderstorm rain of **Moderate to Heavy Intensity** with **Isolated Very Heavy Falls** over **Islamabad, Punjab (Rawalpindi, Sargodha, Multan, Bahawalpur, Sahiwal & Faisalabad Divisions)** and **Sindh Province** including the upper catchments of rivers Indus, Kabul & Jhelum.

6. As per the prediction of FFD, Lahore, the above **Met Conditions** may result into flood situation between **2nd August to 5th August 2024 (next 4 days)** as given below:

- **Medium to High flood** situation in river **Jhelum (Mangla Upstream)**;
- **Medium to High flood** situation in rivers **Kabul and its tributaries & Chenab at Marala, Khanki & Qadirabad Barrages** including the nullahs of rivers **Ravi and Chenab** catchments.
- **Medium to High Flood (Flash Flooding)** in hill torrents of **D.G.Khan Division (Punjab)** and nullahs of **Zhob, Sibbi, Nasirabad & Kalat Divisions (Balochistan)**.
- **Low to Medium flows** in **River Indus at Tarbela**.

7. In light of the weather and flood forecast predicted by the FFD, all relevant organizations are advised to strictly remain on **Alert and Vigilant** and to take immediate action in response to warnings issued by the authorities to ensure the safety of communities living in low-lying areas. Additionally, all pre-emptive measures be ensured to protect public and private properties, as well as irrigation and drainage networks and flood protection structures.

8. 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.


(Dr. M. Ejaz Tanveer)
Chief Engineer Floods

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

Distribution:

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 01-08-2024

Rivers and Reservoir Positions August 01, 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 |
| River Indus | | | | | | | | | |
| • Tarbela Reservoir | 1,500,000 | 604,000 | 30-7-2010 | 211,000 | 159,000 | 324,000 | 170,000 | Normal | 650,000 |
| • Kalabagh | 950,000 | 950,000 | 14-7-1942 | 207,000 | 179,000 | 294,000 | 286,000 | Low Flood | 650,000 |
| • Chashma Reservoir | 950,000 | 1,036,673 | 01-8-2010 | 234,000 | 229,000 | 304,000 | 284,000 | Low Flood | 650,000 |
| • Taunsa | 1,000,000 | 959,991 | 02-8-2010 | 357,000 | 357,000 | 222,000 | 195,000 | Normal | 650,000 |
| • Guddu | 1,200,000 | 1,199,672 | 15-8-1976 | 470,000 | 443,000 | 178,000 | 143,000 | Normal | 700,000 |
| • Sukkur | 900,000 | 1,161,000 | 16-8-1976 | 444,000 | 406,000 | 128,000 | 79,000 | Normal | 700,000 |
| • Kotri | 875,000 | 981,000 | 14-8-1956 | 182,000 | 145,000 | 76,000 | 37,000 | Normal | 650,000 |
| River Kabul | | | | | | | | | |
| • Warsak | 540,000 | | | | 27,000 | | 54,000 | Low Flood | 200,000 |
| • Nowshera | | | | | 48,000 | | 87,000 | Low Flood | 200,000 |
| River Swat | | | | | | | | | |
| • Chakdara Bridge | | | | | 13,000 | | 8,000 | Normal | 150,000 |
| • Munda (H. Works) | | | | | 14,000 | | 16,000 | Normal | 150,000 |
| • Charsadda Road | 150,000 | | | | 14,000 | | 13,000 | Normal | 100,000 |
| River Jhelum | | | | | | | | | |
| • Mangla Reservoir | 1,060,000 | 1,090,000 | 10-9-1992 | 52,000 | 10,000 | 45,000 | 10,000 | Normal | 225,000 |
| • Rasul | 850,000 | 952,170 | 10-9-1992 | 3,000 | NIL | 3,000 | NIL | Normal | 225,000 |
| River Chenab | | | | | | | | | |
| • Marala | 1,100,000 | 1,100,000 | 26-8-1957 | 76,000 | 54,000 | 71,000 | 44,000 | Normal | 400,000 |
| • Khanki | 1,100,000 | 1,086,460 | 27-8-1959 | 69,000 | 62,000 | 69,000 | 61,000 | Normal | 400,000 |
| • Qadirabad | 900,000 | 948,530 | 11-9-1992 | 61,000 | 51,000 | 56,000 | 36,000 | Normal | 400,000 |
| • Trimmu | 875,000 | 943,225 | 08-7-1959 | 101,000 | 96,000 | 46,000 | 30,000 | Normal | 450,000 |
| • Panjnad | 865,000 | 802,516 | 17-8-1973 | 106,000 | 94,000 | 21,000 | 7,000 | Normal | 450,000 |
| River Ravi | | | | | | | | | |
| • Jassar | 275,000 | 680,000 | 05-10-1955 | | 35,000 | | 6,000 | Normal | 150,000 |
| • Shahdara | 250,000 | 680,000 | 22-9-1988 | | 29,000 | | 14,000 | Normal | 135,000 |
| • Balloki | 380,000 | 336,200 | 28-9-1988 | 57,000 | 35,000 | 42,000 | 13,000 | Normal | 135,000 |
| • Sidhnai | 150,000 | 330,210 | 02-10-1988 | 52,000 | 40,000 | 21,000 | 7,000 | Normal | 90,000 |
| River Sutlej | | | | | | | | | |
| • Suleimanki | 325,000 | 598,872 | 08-10-1955 | 71,000 | 63,000 | 17,000 | 4,000 | Normal | 175,000 |
| • Islam | 332,000 | 492,581 | 11-10-1955 | 54,000 | 54,000 | 4,000 | 1,000 | Normal | 175,000 |

B. Reservoir Storage Position:

| Reservoir | Maximum Conservation Level (FI-AMSL) | Minimum Operating Level (FI-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 | 1531.00 | 1537.79 | 1530.00 | 5.766 | 5.112 | 4.641 | 80.49 % |
| Chashma | 649.00 | 638.15 | 639.00 | 638.50 | 644.50 | 0.278 | 0.004 | 0.113 | 40.65 % |
| Mangla | 1242.00 | 1050.00 | 1153.30 | 1229.35 | 1203.05 | 7.277 | 6.370 | 4.449 | 61.14 % |
| Total Live Storage | | | | | | 13.321 | 11.486 | 9.203 | 69.09 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2023 | Today 2024 | Difference (+ / -) |
|--------------------|----------------|------------|----------------------|
| Maximum | 28.6 °C | 32.6 °C | + 4.0 °C |
| Minimum | 16.4 °C | 17.4 °C | + 1.0 °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 | { Airport=337, Township=250, Shahi Qilla=226, Johar Town & Taj Pura=220 each, Qurtba chock=218, Shahdara=215, Gulshan-e-Ravi=210, Iqbal Town=205, Samanabad=203, Misri Shah=200, Luckshami=199, Upper Mall=194, Mughal Pura=180, Gulburg=150 & City=118 } |
| 2. | Gujranwala | 123 |
| 3. | Mangla | 97 |
| 4. | Narowal | 69 |
| 5. | Kasur | 62 |
| 6. | Kallar | 53 |
| 7. | Islamabad | 28 |
| 8. | Hafizabad | 23 |
| 9. | Gujrat | 17 |
| 10. | Sialkot & Mandi-Bahauddin | 12 each |
| B | Sindh | |
| 11. | Karachi | 12 |
| C | Khyber Pakhtunkhwa | |
| 12. | Kakul | 14 |
| D | Balochistan | |
| 13. | Kalat | 40 |
| 14. | Khuzdar | 26 |

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