



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

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DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY AUGUST 31, 2021

Monsoon rainfall activity is gradually picking up with some relatively good rains experienced during the past 24 hours especially in Punjab and Khyber Pakhtunkhwa. However, overall impact of these rains over river discharges is "Nil" as all the major rivers (Indus, Jhelum, Chenab, Ravi and Sutlej) continue to flow in "Normal Flow Condition". Also persistently low inflows due to fluctuating temperatures upstream major reservoirs have kept the total Combined Live Storage to just over **75%** (**10.164 MAF Vs 13.516 MAF, Annexure-I**). Judicious releases are being ensured by IRSA.

2. As per the prevailing meteorological features over Pakistan, indicated by FFD, Lahore, yesterday's Westerly Wave trough continues to persist over Northern parts of Pakistan with Bay of Bengal Monsoon Low, previously over South Chattisgarh (India), today exists over Eastern parts of Maharashtra (India). Arabian Sea Marked Seasonal Low rests over North Balochistan having its trough extended to North-Eastwards. Moist currents from these two weather systems (Monsoon Low & Seasonal Low) are penetrating into upper parts of Pakistan upto 5000 feet including Southeast Sindh and Bahawalpur Division (Punjab).

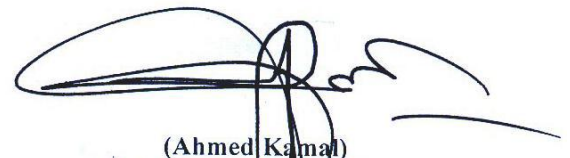
Next 24 hours prediction:

3. Scattered thunderstorm/ rain of **Moderate Intensity** is expected over the **Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore & D.G. Khan Divisions) and Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** including the upper catchments of all main rivers. Likelihood of isolated thunderstorm/ rain over **Punjab (Faisalabad, Sahiwal, Multan & Bahawalpur Divisions)** also exists during the same period. Noticeable rainfall events of past 24 hours may be seen at **Annexure-II**.

Next 48 hours prediction:

4. For the next 48 hours, as per FFD, Lahore, rainfall activity is likely to increase over Sindh and Eastern Balochistan and decrease over the upper parts of the country.

5. Pakistan Meteorological Department (PMD) is monitoring the present weather system and keeping all concerned 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 Information & Broadcasting, 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.

Distribution:

7. Director General (Coordination), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
8. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
9. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.
10. Chief Executive Officer, Pakistan Railways, Lahore
11. Member (Infrastructure), Planning Commission, Islamabad.
12. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
13. Chairman, WAPDA, WAPDA House, Lahore.
14. Chairman, National Highway Authority, Islamabad.
15. Chairman, Indus River System Authority, Islamabad.
16. Member (Water), WAPDA, WAPDA House, Lahore.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Chief Secretary, Government of the Punjab, Lahore.
19. Chief Secretary, Government of Sindh, Karachi.
20. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
21. Chief Secretary, Government of Balochistan, Quetta.
22. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
23. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
24. Chief Commissioner, Islamabad.
25. Secretary, Irrigation Department, Government of the Punjab, Lahore.
26. Secretary, Irrigation Department, Government of Sindh, Karachi.
27. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
28. Secretary, Irrigation Department, Government of Balochistan, Quetta.
29. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
32. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
33. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
34. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
35. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
36. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
37. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
38. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
39. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
40. Principal Information Officer, Press Information Department, Islamabad.
41. Director (News), Associated Press of Pakistan, Islamabad.
42. Director (News), Pakistan Television, Islamabad.
43. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi
44. PS to CEA/ CFFC Islamabad.

U.O. No. FC-I (31)/2021, dated 31-08-2021

Rivers and Reservoir Positions August 31, 2021 at 0600 Hours

A. River Flow Situation:

| Structures | Designed Capacity | Last Year Flow | | Today Actual Flow | | Comparative Danger (VHF) Classification | Flood Classification* (Based on today's Outflow) |
|--|-------------------|----------------|----------|-------------------|----------|---|--|
| | | Inflow | Out Flow | In Flow | Out Flow | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| River Indus | | | | | | | |
| ▪ Tarbela Reservoir | 1,500,000 | 170,000 | 212,000 | 144,000 | 95,000 | 650,000 | Normal |
| ▪ Kalabagh | 950,000 | 229,000 | 221,000 | 160,000 | 153,000 | 650,000 | Normal |
| ▪ Chashma Reservoir | 950,000 | 305,000 | 300,000 | 179,000 | 164,000 | 650,000 | Normal |
| ▪ Taunsa | 1,000,000 | 322,000 | 311,000 | 158,000 | 138,000 | 650,000 | Normal |
| ▪ Guddu | 1,200,000 | 234,000 | 229,000 | 111,000 | 84,000 | 700,000 | Normal |
| ▪ Sukkur | 900,000 | 208,000 | 205,000 | 68,000 | 27,000 | 700,000 | Normal |
| ▪ Kotri | 875,000 | 87,000 | 86,000 | 27,000 | NIL | 650,000 | Normal |
| River Kabul | | | | | | | |
| ▪ Warsak | 540,000 | | 27,000 | | 20,000 | 200,000 | Normal |
| ▪ Nowshera | | | 41,000 | | 22,000 | 200,000 | Normal |
| River Swat (Tributary of Kabul) | | | | | | | |
| ▪ Chakdara Bridge | | | 10,000 | | 9,000 | 150,000 | Normal |
| ▪ Munda Head Works | 150,000 | | 8,000 | | 3,000 | 150,000 | Normal |
| ▪ Charsadda Road Bridge | | | 7,000 | | 5,000 | 100,000 | Normal |
| River Jhelum | | | | | | | |
| ▪ Mangla Reservoir | 1,060,000 | 35,000 | 20,000 | 14,000 | 30,000 | 225,000 | Normal |
| ▪ Rasul | 850,000 | 38,000 | 38,000 | 29,000 | 8,000 | 225,000 | Normal |
| River Chenab | | | | | | | |
| ▪ Marala | 1,100,000 | 66,000 | 61,000 | 44,000 | 9,000 | 400,000 | Normal |
| ▪ Khanki | 1,100,000 | 76,000 | 71,000 | 11,000 | 4,000 | 400,000 | Normal |
| ▪ Qadirabad | 900,000 | 78,000 | 60,000 | 25,000 | 3,000 | 400,000 | Normal |
| ▪ Trimmu | 875,000 | 179,000 | 166,000 | 30,000 | 14,000 | 450,000 | Normal |
| ▪ Panjnad | 865,000 | 54,000 | 39,000 | 12,000 | NIL | 450,000 | Normal |
| River Ravi | | | | | | | |
| ▪ Jassar | 275,000 | | 11,000 | | 4,000 | 150,000 | Normal |
| ▪ Shahdara | 250,000 | | 15,000 | | 19,000 | 135,000 | Normal |
| ▪ Balloki | 380,000 | 44,000 | 18,000 | 33,000 | 5,000 | 135,000 | Normal |
| ▪ Sidhnai | 150,000 | 29,000 | 13,000 | 16,000 | NIL | 90,000 | Normal |
| River Sutlej | | | | | | | |
| ▪ Suleimanki | 325,000 | 19,000 | 6,000 | 16,000 | 2,000 | 175,000 | Normal |
| ▪ Islam | 332,000 | 3,000 | 1,000 | 1,000 | NIL | 175,000 | Normal |

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) |
|---------------------------|--------------------------------------|-----------------------------------|--------------------------|---------|---------|--------------------|---------------|---------------|---|
| | | | 2019 | 2020 | 2021 | Maximum | Last Year | Today | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tarbela | 1550.00 | 1392.00 | 1550.00 | 1550.00 | 1548.88 | 5.882 | 5.980 | 5.818 | 99.00 % |
| Chashma | 649.00 | 638.15 | 649.00 | 639.00 | 643.80 | 0.278 | 0.010 | 0.096 | 34.53 % |
| Mangla | 1242.00 | 1050.00 | 1220.00 | 1241.15 | 1198.70 | 7.356 | 7.287 | 4.250 | 58.00 % |
| Total Live Storage | | | | | | 13.516 | 13.277 | 10.164 | 75.19 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2020 | Today 2021 |
|--------------------|----------------|------------|
| Maximum | 28.2 °C | 26.3 °C |
| Minimum | 13.2 °C | 14.5 °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)

* (↑) Signifies "Rising" Flood, (↓) Signifies "Falling" Flood, (→) 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 | [Shahdara = 62, Airport = 18, Taj Pura & Luckshami = 12 (each), Shahi Qilla =11, Misri Shah = 10] |
| 2. | Toba Tek Singh & Kot Addu | 50 each |
| 3. | Multan | 35 |
| 4. | Islamabad | 26 |
| 5. | D.G. Khan | 25 |
| 6. | Mandi Bahauddin | 24 |
| 7. | Bahawalpur | 23 |
| 8. | Faisalabad | 19 |
| 9. | Sharqpur | 16 |
| 10. | Ravi Syphon | 15 |
| 11. | Murree | 12 |
| B | Khyber Pakhtunkhwa | |
| 12. | Kakul | 42 |
| 13. | Saidu Sharif | 20 |
| 14. | Malam Jabba | 19 |
| 15. | Attock | 18 |
| 16. | Takht Bai & Mardan | 14 each |
| 17. | Peshawar & Pattan | 10 each |
| C | Balochistan | |
| 18. | Zhob | 19 |
| 19. | Barkhan | 06 |
| D | AJ&K | |
| 20. | Dhulli | 37 |
| 21. | Rawalakot | 22 |
| 22. | Palandri | 18 |

Source: FFD, Lahore