



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

6-Attaturk Avenue, G-5/1, Islamabad
Fax No. 051-9244621 & www.ffc.gov.pk

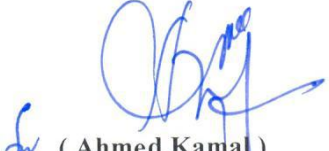
DAILY WEATHER & FLOOD SITUATION REPORT
SUNDAY AUGUST 22, 2021

Not much rainfall activity has been experienced over the upper catchment areas of main rivers during the last 24 hours. At present, there is no riverine flood situation in the country and all the main rivers of Indus River System are flowing with "Normal Flows". Inflows/outflows of major rivers at important control structures & storage position of major reservoirs alongwith Skardu temperature may be seen at **Annexure-I**. Today's Combined Live Storage of Country's three major reservoirs (Tarbela, Chashma & Mangla) is **10.195 MAF (75.42%** of the Maximum Combined Live Storage Capacity of **13.516 MAF)**.

2. According to FFD, Lahore, yesterday's trough of Westerly Wave over Northeastern Afghanistan and adjoining areas has moved away Eastwards rapidly. A fresh trough of Westerly Wave lies over Northwestern parts of Afghanistan with weak Seasonal Low continues to prevail over Northeastern Balochistan. Monsoon Currents of **Moderate Intensity** from Arabian Sea & Bay of Bengal are penetrating into upper parts of the country upto 5000 feet.

3. Scattered thunderstorm/rain of **Moderate Intensity** has been predicted by FFD, Lahore over **Rawalpindi, Gujranwala, Lahore & Bahawalpur Divisions** of the Punjab province including upper catchments of rivers Chenab, Ravi & Sutlej during the next 24 hours. Isolated thunderstorm/rain may also occur over **Punjab (Sargodha Division) and Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** including upper catchments of rivers Indus, Kabul & Jhelum during the same period. No significant rainfall event has been reported by FFD, Lahore during the past 24 hours except for Kotnaina = 14 mm.

4. Effective and Round-the-Clock monitoring of existing meteorological conditions over Pakistan is being done by Pakistan Meteorological Department and keeping all concerned fully abreast of the situation through its Flood Forecasting Division at 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.
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.

Distribution:

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 22-08-2021

Rivers and Reservoir Positions August 22, 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 | 208,000 | 159,000 | 124,000 | 93,000 | 650,000 | Normal |
| ▪ Kalabagh | 950,000 | 217,000 | 209,000 | 138,000 | 131,000 | 650,000 | Normal |
| ▪ Chashma Reservoir | 950,000 | 251,000 | 245,000 | 155,000 | 140,000 | 650,000 | Normal |
| ▪ Taunsa | 1,000,000 | 228,000 | 201,000 | 163,000 | 141,000 | 650,000 | Normal |
| ▪ Guddu | 1,200,000 | 130,000 | 108,000 | 128,000 | 97,000 | 700,000 | Normal |
| ▪ Sukkur | 900,000 | 90,000 | 50,000 | 87,000 | 35,000 | 700,000 | Normal |
| ▪ Kotri | 875,000 | 41,000 | 26,000 | 31,000 | NIL | 650,000 | Normal |
| River Kabul | | | | | | | |
| ▪ Warsak | 540,000 | | 31,000 | | 17,000 | 200,000 | Normal |
| ▪ Nowshera | | | 47,000 | | 21,000 | 200,000 | Normal |
| River Swat (Tributary of Kabul) | | | | | | | |
| ▪ Chakdara Bridge | | | 14,000 | | 9,000 | 150,000 | Normal |
| ▪ Munda Head Works | 150,000 | | 8,000 | | 4,000 | 150,000 | Normal |
| ▪ Charsadda Road Bridge | | | 7,000 | | 5,000 | 100,000 | Normal |
| River Jhelum | | | | | | | |
| ▪ Mangla Reservoir | 1,060,000 | 21,000 | 8,000 | 22,000 | 24,000 | 225,000 | Normal |
| ▪ Rasul | 850,000 | 9,000 | 8,000 | 31,000 | 16,000 | 225,000 | Normal |
| River Chenab | | | | | | | |
| ▪ Marala | 1,100,000 | 100,000 | 76,000 | 52,000 | 17,000 | 400,000 | Normal |
| ▪ Khanki | 1,100,000 | 67,000 | 60,000 | 15,000 | 7,000 | 400,000 | Normal |
| ▪ Qadirabad | 900,000 | 62,000 | 44,000 | 25,000 | 8,000 | 400,000 | Normal |
| ▪ Trimmu | 875,000 | 57,000 | 42,000 | 22,000 | 5,000 | 450,000 | Normal |
| ▪ Panjnad | 865,000 | 16,000 | NIL | 13,000 | NIL | 450,000 | Normal |
| River Ravi | | | | | | | |
| ▪ Jassar | 275,000 | | 22,000 | | 3,000 | 150,000 | Normal |
| ▪ Shahdara | 250,000 | | 25,000 | | 19,000 | 135,000 | Normal |
| ▪ Balloki | 380,000 | 51,000 | 22,000 | 32,000 | 3,000 | 135,000 | Normal |
| ▪ Sidhnai | 150,000 | 16,000 | 1,000 | 15,000 | NIL | 90,000 | Normal |
| River Sutlej | | | | | | | |
| ▪ Suleimanki | 325,000 | 20,000 | 6,000 | 16,000 | 2,000 | 175,000 | Normal |
| ▪ Islam | 332,000 | 3,000 | 2,000 | 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 | 1540.93 | 1542.95 | 5.882 | 5.462 | 5.479 | 93.14 % |
| Chashma | 649.00 | 638.15 | 647.00 | 648.50 | 648.50 | 0.278 | 0.253 | 0.253 | 91.00 % |
| Mangla | 1242.00 | 1050.00 | 1215.85 | 1238.05 | 1202.05 | 7.356 | 7.042 | 4.463 | 61.00 % |
| Total Live Storage | | | | | | 13.516 | 12.757 | 10.195 | 75.42 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2020 | Today 2021 |
|--------------------|----------------|------------|
| Maximum | 28.4 °C | 32.7 °C |
| Minimum | 16.4 °C | 15.0 °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)

* (↑) Signifies "Rising" Flood, (↓) Signifies "Falling" Flood, (→) Signifies "Stable" Flow Condition & NR stands for "Not Received"