



**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 SEPTEMBER 21, 2021**

Some good rains have been experienced in parts of Punjab, Khyber Pakhtunkhwa and Gilgit-Baltistan during the past 24 hours. There has been no impact of these rains on river discharges which continue to flow Normal. For overall rivers inflow/outflow position including major reservoir levels and present storage position, **Annexure-I** is referred.

2. Westerly Wave trough currently exists over Northern parts of Pakistan. Seasonal Low continues to prevail over Northeastern Balochistan and bringing in moist currents of **Moderate Intensity** from the Arabian Sea besides from the Bay of Bengal which are penetrating upto 5000 feet into upper parts of Pakistan.

3. For the ensuing 24 hours, there is a likelihood of scattered thunderstorm/rain of **Light to Moderate Intensity** with isolated **Heavy Falls** over **Rawalpindi, Gujranwala, Lahore & Bahawalpur Divisions** of Punjab including **Islamabad, Peshawar Division** of Khyber Pakhtunkhwa and over the upper catchments of rivers Kabul, Indus and Jhelum. As per FFD, Lahore, during the same time span, scattered thunderstorm/rain of **Light to Moderate Intensity** may also occur over **Sargodha, Faisalabad, Sahiwal, Multan & D.G. Khan Divisions** of Punjab, **Kohat & Bannu Divisions** of Khyber Pakhtunkhwa, upper parts of Sindh besides over the upper catchments of rivers Chenab, Ravi and Sutlej. As against somewhat continuous dry weather over the past one week or so, during the last 24 hours some good rainfall events have been reported by FFD, Lahore. (**Annexure-II**)

4. Well coordinated monitoring of prevalent meteorological conditions over Pakistan is being regularly exercised by Pakistan Meteorological Department and is 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.
10. Chief Executive Officer, Pakistan Railways, Lahore
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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 21-09-2021

Rivers and Reservoir Positions September 21, 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 | 80,000 | 84,000 | 103,000 | 86,000 | 650,000 | Normal |
| ▪ Kalabagh | 950,000 | 89,000 | 81,000 | 163,000 | 155,000 | 650,000 | Normal |
| ▪ Chashma Reservoir | 950,000 | 114,000 | 109,000 | 150,000 | 125,000 | 650,000 | Normal |
| ▪ Taunsa | 1,000,000 | 120,000 | 99,000 | 138,000 | 116,000 | 650,000 | Normal |
| ▪ Guddu | 1,200,000 | 101,000 | 71,000 | 119,000 | 86,000 | 700,000 | Normal |
| ▪ Sukkur | 900,000 | 79,000 | 36,000 | 78,000 | 23,000 | 700,000 | Normal |
| ▪ Kotri | 875,000 | 292,000 | 274,000 | 27,000 | 2,000 | 650,000 | Normal |
| River Kabul | | | | | | | |
| ▪ Warsak | 540,000 | | 11,000 | | 14,000 | 200,000 | Normal |
| ▪ Nowshera | | | 12,000 | | 16,000 | 200,000 | Normal |
| River Swat (Tributary of Kabul) | | | | | | | |
| ▪ Chakdara Bridge | | | 6,000 | | 7,000 | 150,000 | Normal |
| ▪ Munda Head Works | 150,000 | | 4,000 | | 4,000 | 150,000 | Normal |
| ▪ Charsadda Road Bridge | | | 4,000 | | 2,000 | 100,000 | Normal |
| River Jhelum | | | | | | | |
| ▪ Mangla Reservoir | 1,060,000 | 20,000 | 57,000 | 18,000 | 19,000 | 225,000 | Normal |
| ▪ Rasul | 850,000 | 47,000 | 27,000 | 28,000 | 8,000 | 225,000 | Normal |
| River Chenab | | | | | | | |
| ▪ Marala | 1,100,000 | 36,000 | 7,000 | 34,000 | 9,000 | 400,000 | Normal |
| ▪ Khanki | 1,100,000 | 11,000 | 3,000 | 20,000 | 13,000 | 400,000 | Normal |
| ▪ Qadirabad | 900,000 | 21,000 | NIL | 26,000 | 4,000 | 400,000 | Normal |
| ▪ Trimmu | 875,000 | 46,000 | 32,000 | 29,000 | 13,000 | 450,000 | Normal |
| ▪ Panjnad | 865,000 | 33,000 | 17,000 | 35,000 | 19,000 | 450,000 | Normal |
| River Ravi | | | | | | | |
| ▪ Jassar | 275,000 | | 4,000 | | 6,000 | 150,000 | Normal |
| ▪ Shahdara | 250,000 | | 17,000 | | 23,000 | 135,000 | Normal |
| ▪ Balloki | 380,000 | 37,000 | 5,000 | 38,000 | 9,000 | 135,000 | Normal |
| ▪ Sidhnai | 150,000 | 23,000 | 5,000 | 22,000 | 4,000 | 90,000 | Normal |
| River Sutlej | | | | | | | |
| ▪ Suleimanki | 325,000 | 16,000 | 2,000 | 16,000 | 2,000 | 175,000 | Normal |
| ▪ Islam | 332,000 | 1,000 | NIL | 2,000 | 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 | 1540.00 | 1550.00 | 1521.83 | 5.882 | 5.980 | 4.333 | 73.66 % |
| Chashma | 649.00 | 638.15 | 646.00 | 647.30 | 645.80 | 0.278 | 0.198 | 0.147 | 52.87 % |
| Mangla | 1242.00 | 1050.00 | 1218.30 | 1237.30 | 1189.90 | 7.356 | 6.984 | 3.723 | 50.61 % |
| Total Live Storage | | | | | | 13.516 | 13.162 | 8.203 | 60.69 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2020 | Today 2021 |
|--------------------|----------------|------------|
| Maximum | 29.1 °C | 31.4 °C |
| Minimum | 10.2 °C | 15.4 °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. | Islamabad | 65 |
| 2. | Lahore | 53 |
| 3. | Kamra (Airbase) | 23 |
| 4. | Narowal & Ravi Syphon | 21 |
| 5. | Noorpur Thal | 19 |
| 6. | Sargodha | 15 |
| 7. | Phulra | 13 |
| 8. | Murree & Zafarwal | 11 each |
| 9. | Mangla | 07 |
| 10. | Jhelum & Gujrat | 05 each |
| B. | Khyber Pakhtunkhwa | |
| 11. | Buner | 29 |
| 12. | Cherat | 27 |
| 13. | Daggar | 24 |
| 14. | Oghi | 22 |
| 15. | Kakul | 17 |
| 16. | Balakot | 10 |
| 17. | Malam Jabba & Shinkiari | 09 each |
| 18. | Besham | 07 |
| 19. | Kalam | 06 |
| C. | Gilgit-Baltistan | |
| 20. | Hunza | 08 |
| 21. | Bagrote | 05 |
| D. | AJ&K | |
| 22. | Garhi Dopatta | 30 |
| 23. | Domel | 26 |
| 24. | Hajira | 25 |
| 25. | Palandri | 14 |
| 26. | Brarkot | 10 |
| 27. | Kotli | 09 |
| 28. | Muzaffarabad | 05 |

Source: FFD, Lahore