



**FEDERAL FLOOD COMMISSION'S
DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY, AUGUST 29, 2024**

Except for River Indus other main Rivers of the Indus River System (the Jhelum, Chenab, Ravi & Sutlej) are discharging Normal Flows. River Indus is flowing in “**Medium Flood**” at Kotri barrage and in “**Low Flood**” at Tarbela and in Guddu-Sukkur reach. Annexure-I, depicts main rivers inflows/outflows at important control structures, reservoirs storage position besides Skardu temperature at 0600 hours today.

2. Since August 19, 2024, Tarbela Reservoir is being maintained at its Maximum Conservation Level of **1550.00 feet**, while Mangla Reservoir is at El: 1217.90 feet against its MCL: 1242 feet (**25.04%** storage still left). Present Combined Live Storage of Tarbela, Chashma & Mangla Reservoirs is **11.506 MAF** (i.e. **86.16 %** of the total live storage capacity of **13.354 MAF**: reference Annexure-I). WAPDA Authorities and field formations of Punjab & Sindh Irrigation Departments are exercising utmost care and strict vigilance in the reservoir/ barrage operation for effective flood routing and for the overall protection of flood embankments.

3. According to FFD, Lahore, yesterday's **DEEP DEPRESSION** over Northwestern Gujrat (India) and adjacent Southeastern Sindh remained stationary, extending vertically up to 9 km. Also, westerly wave trough over Northern Pakistan continues to persist. Light to moderate moist currents from the Bay of Bengal are presently penetrating into the upper catchments of all major rivers. Meanwhile, strong moist currents from both the Bay of Bengal and the Arabian Sea are penetrating into Southern Sindh and adjoining areas up to 10,000 feet. Seasonal low pressure system (weak) is present over Northwestern Balochistan.

Next 48 Hours Forecast

4. For the next 48 hours, FFD, Lahore has predicted scattered thunderstorm rain of Moderate Intensity with isolated Heavy Falls over Islamabad, Punjab (Rawalpindi, Sargodha, Gujranwala, Lahore, Faisalabad and Sahiwal Divisions) and Khyber Pakhtunkhwa including over the upper catchments of all the major rivers of IRS. During the same period, widespread thunderstorm rain of Heavy to Very Heavy intensity with isolated Extremely Heavy Falls may occur over Southern Punjab (D.G. Khan, Multan & Bahawalpur Divisions), Sindh and Balochistan (Zhob, Loralai, Sibbi, Nasirabad, Kalat & Makran Divisions). The wet spell is likely to decrease after 48 hours in Sindh and Southern Punjab, though, monsoon activity is expected to continue in Balochistan for an additional 24 hours. As a result, there is a likelihood of following Flood Situation up to **31st August 2024**:

- **Flash Flooding** is expected in areas along the Kirthar Range (including Jacobabad, Qambar Shahdadkot, Dadu & Jamshoro Districts in Sindh) and the Sulaiman Range (covering D.G.Khan & Rajanpur Districts in Punjab) including nullahs in Balochistan (Zhob, Loralai, Sibbi, Nasirabad and Kalat Divisions).
- **Urban flooding** is anticipated in major cities of Sindh.

5. Significant rainfall events reported during the past 24 hours may be seen at **Annexure-II**.


Tropical Cyclone Alert: Potential Cyclonic Storm Over Northeast Arabian Sea

6. The Met Office has reported that the **Deep Depression** over Runn of Kutch (India) has moved slowly West-Southwest in the last 12 hours and is now located approximately at Latitude 23.7 N & Longitude 69.5 E, about 270 KM East/Southeast of Karachi. The system is expected to move West-Southwestwards and emerge into the Northeastern Arabian Sea along the Sindh coast (Pakistan) by late tonight or tomorrow morning. Favorable conditions suggest it may intensify into a **Cyclonic Storm** by tomorrow, moving initially west-southwest.

7. Above system is likely to cause widespread rain /wind-thunderstorms with scattered Heavy-Very Heavy to isolated Extremely Heavy Falls in **Sindh (Tharparker, Badin, Thatta, Sujawal, Hyderabad, T.M. Khan, T.A. Yar, Matiari, Umerkot, Mirpurkhas, Sanghar, Jamshoro, Dadu & Shaheed Benazirabad Districts & Karachi Division)** till August 31, 2024, with occasional breaks. Sea conditions will be **Rough to Very Rough** with squally winds (sudden strong winds) of 50-60 Km/hour. Fishermen are advised to avoid venturing into the sea until August 31, 2024.

8. All concerned organizations especially PDMA's and Provincial Irrigation Departments (PDMA Sindh, PID Sindh in particular) are advised to remain on **High Alert, Vigilant and in response mode**, ensure prompt action in response to warnings issued by relevant authorities. This is crucial to ensure the safety of communities in low-lying areas and to implement all necessary pre-emptive measures to protect public and private properties, as well as irrigation and drainage network and flood protection infrastructures.

9. Round-the-Clock monitoring of the prevailing weather conditions, particularly the **DEEP DEPRESSION** (over Northwestern Gujrat (India) and adjacent Southeastern Sindh, Pakistan), its further movement and potential impacts is being done by Pakistan Meteorological Department (PMD), through FFD, Lahore and is keeping all relevant organizations fully cognizant of the situation. Additionally, PMD's Cyclone Warning Center in Karachi is closely monitoring the system and will issue updates as necessary.


(Dr. M. Ejaz Tanveer)
Chief Engineer (Floods) 29/08/2024

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.

Distribution:

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 29-08-2024

Rivers and Reservoir Positions August 29, 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 | 151,000 | 150,000 | 185,000 | 256,000 | Low Flood (S) | 650,000 |
| • Kalabagh | 950,000 | 950,000 | 14-7-1942 | 200,000 | 192,000 | 245,000 | 241,000 | Normal | 650,000 |
| • Chashma Reservoir | 950,000 | 1,036,673 | 01-8-2010 | 264,000 | 247,000 | 246,000 | 226,000 | Normal | 650,000 |
| • Taunsa | 1,000,000 | 959,991 | 02-8-2010 | 260,000 | 237,000 | 184,000 | 169,000 | Normal | 650,000 |
| • Guddu | 1,200,000 | 1,199,672 | 15-8-1976 | 276,000 | 247,000 | 228,000 | 226,000 | Low Flood (F) | 700,000 |
| • Sukkur | 900,000 | 1,161,000 | 16-8-1976 | 224,000 | 171,000 | 272,000 | 268,000 | Low Flood (F) | 700,000 |
| • Kotri | 875,000 | 981,000 | 14-8-1956 | 148,000 | 108,000 | 332,000 | 331,000 | Med Flood (R) | 650,000 |
| River Kabul | | | | | | | | | |
| • Warsak | 540,000 | | | | 20,000 | | 20,000 | Normal | 200,000 |
| • Nowshera | | | | | 28,000 | | 33,000 | Normal | 200,000 |
| River Swat | | | | | | | | | |
| • Chakdara Bridge | | | | | 8,000 | | 6,000 | Normal | 150,000 |
| • Munda (H. Works) | | | | | 7,000 | | 5,000 | Normal | 150,000 |
| • Charsadda Road | 150,000 | | | | 6,000 | | 5,000 | Normal | 100,000 |
| River Jhelum | | | | | | | | | |
| • Mangla Reservoir | 1,060,000 | 1,090,000 | 10-9-1992 | 16,000 | 18,000 | 18,000 | 8,000 | Normal | 225,000 |
| • Rasul | 850,000 | 952,170 | 10-9-1992 | 15,000 | 12,000 | 2,000 | NIL | Normal | 225,000 |
| River Chenab | | | | | | | | | |
| • Marala | 1,100,000 | 1,100,000 | 26-8-1957 | 46,000 | 22,000 | 51,000 | 22,000 | Normal | 400,000 |
| • Khanki | 1,100,000 | 1,086,460 | 27-8-1959 | 29,000 | 21,000 | 33,000 | 25,000 | Normal | 400,000 |
| • Qadirabad | 900,000 | 948,530 | 11-9-1992 | 23,000 | 13,000 | 29,000 | 11,000 | Normal | 400,000 |
| • Trimmu | 875,000 | 943,225 | 08-7-1959 | 79,000 | 69,000 | 29,000 | 18,000 | Normal | 450,000 |
| • Panjnad | 865,000 | 802,516 | 17-8-1973 | 94,000 | 77,000 | 54,000 | 40,000 | Normal | 450,000 |
| River Ravi | | | | | | | | | |
| • Jassar | 275,000 | 680,000 | 05-10-1955 | | 7,000 | | 11,000 | Normal | 150,000 |
| • Shahdara | 250,000 | 680,000 | 22-9-1988 | | 22,000 | | 21,000 | Normal | 135,000 |
| • Balloki | 380,000 | 336,200 | 28-9-1988 | 31,000 | 8,000 | 42,000 | 21,000 | Normal | 135,000 |
| • Sidhna | 150,000 | 330,210 | 02-10-1988 | 26,000 | 8,000 | 23,000 | 17,000 | Normal | 90,000 |
| River Sutlej | | | | | | | | | |
| • Suleimanki | 325,000 | 598,872 | 08-10-1955 | 99,000 | 85,000 | 15,000 | 10,000 | Normal | 175,000 |
| • Islam | 332,000 | 492,581 | 11-10-1955 | 83,000 | 81,000 | 8,000 | 7,000 | Normal | 175,000 |

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) |
|---------------------------|--------------------------------------|-----------------------------------|--------------------------|---------|---------|--------------------|---------------|---------------|---|
| | | | 2022 | 2023 | 2024 | Maximum | Last Year | Today | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tarbela | 1550.00 | 1402.00 | 1550.00 | 1550.00 | 1550.00 | 5.766 | 5.809 | 5.766 | 100 % |
| Chashma | 649.00 | 638.15 | 640.50 | 648.00 | 648.50 | 0.311 | 0.227 | 0.285 | 91.64 % |
| Mangla | 1242.00 | 1050.00 | 1184.30 | 1242.00 | 1217.90 | 7.277 | 7.356 | 5.455 | 74.96 % |
| Total Live Storage | | | | | | 13.354 | 13.392 | 11.506 | 86.16 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2023 | Today 2024 | Difference (+ / -) |
|--------------------|----------------|------------|--------------------|
| Maximum | 24.7 °C | 24.3 °C | - 0.4 °C |
| Minimum | 14.8 °C | 14.4 °C | - 0.4 °C |

NOTE-1: "Mild" Categories

Low Flood:

Medium Flood:

High Flood:

River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas

River partly inundating river islands/belas

River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboard

NOTE-2: "Danger" Categories

Very High Flood (VHF):

Exceptionally High Flood (EHF):

River flowing between high banks/bunds with encroachment on the freeboard

Imminent danger of overtopping/breaching, or the high bank areas have become inundated

NOTE-3: * 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.

NOTE-4: Maximum Live Storage Capacity has increased from 13.321 MAF to 13.354 MAF due to de-silting of Chashma Barrage causing increase in its Live Storage Capacity from 0.278 MAF to 0.311 MAF.

Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission
DAILY WEATHER AND FLOOD SITUATION REPORT
THURSDAY AUGUST 29, 2024
Significant Rainfall Events during the Past 24 Hours

| Sr. No. | City/Observatory | Rainfall (mm) |
|----------|---------------------------|---------------|
| A | Punjab | |
| 1. | Sargodha | 70 |
| 2. | Okara | 61 |
| 3. | Faisalabad | 37 |
| 4. | Kot Addu | 36 |
| 5. | Sahiwal | 34 |
| 6. | Mianwali | 30 |
| 7. | Hafizabad & T.T. Singh | 23 each |
| 8. | Joharabad & Lahore | 18 each |
| 9. | Islamabad | 10 |
| B | Sindh | |
| 10. | Mirpur Khas | 143 |
| 11. | Badin | 112 |
| 12. | Chhor | 81 |
| 13. | Mithi | 70 |
| 14. | Hyderabad | 63 |
| 15. | Tando Jam | 61 |
| 16. | Karachi | 30 |
| 17. | Thatta | 25 |
| 18. | Shaheed Benazirabad | 15 |
| C | Khyber Pakhtunkhwa | |
| 19. | D.I.Khan | 34 |
| 20. | Kakul | 26 |
| 21. | Balakot | 16 |
| 22. | Hunza & Bunji | 15 each |
| D | Gilgit-Baltistan | |
| 23. | Astore | 28 |
| 24. | Bagrote | 22 |
| 25. | Gilgit & Chilas | 13 each |
| E | AJ&K | |
| 26. | Chattar Kallas | 75 |
| 27. | Muzaffarabad | 39 |
| 28. | Sharda | 38 |
| 29. | Domel | 27 |
| 30. | Garhi Dopatta | 17 |
| 31. | Chakoth | 12 |

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