



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

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**DAILY WEATHER AND FLOOD SITUATION REPORT**  
**SUNDAY SEPTEMBER 22, 2019**

**Rivers & Reservoirs Situation:**

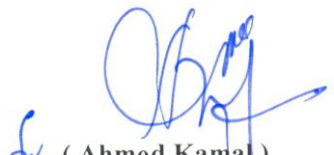
All main rivers of the country i.e. Indus, Jhelum, Chenab, Ravi and Sutlej are flowing normal (**Annexure-I**). Present Combined Live Storage of three main reservoirs (Tarbela, Chashma & Mangla) is **11.066 MAF** i.e. **80.87 %** of their total storage capacity.

**Weather & Rainfall Forecast for next 24 hours:**

Yesterday's Low Pressure Area over coast of Maharashtra (India) has moved West-Northwestwards and today lies over Northeastern Arabian Sea as well-marked Low. A fresh Trough of Westerly Wave lies over Northern parts of Iran. Seasonal Low still persists over Balochistan. Weak moist currents from Arabian Sea & Bay of Bengal are penetrating into upper parts of the country upto 5000 feet.

According to FFD, Lahore mainly dry weather is expected most parts of the country during the next 24 hours. However, isolated thunderstorm/rain may occur over the upper catchments of all major rivers (except upper Indus) including Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore & Faisalabad Divisions) and Khyber Pakhtunkhwa (Malakand, Hazara, Bannu, Kohat & Peshawar Divisions) during the same period. No Significant rainfall event has been reported during the past 24 hours.

PMD is monitoring the prevailing weather system on Round-the-Clock basis and accordingly 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 & Reforms, Islamabad.
3. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.
4. Secretary, Ministry of Water Resources, Islamabad.
5. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
6. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad
7. Director General, Military Operations (MO-4), General Headquarters Rawalpindi.
8. Chief Executive Officer, Pakistan Railways, Lahore.
9. Member (Infrastructure), Planning Commission, Islamabad.
10. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chairman, National Highway Authority, Islamabad.
13. Chairman, Indus River System Authority, Islamabad
14. Member (Water), WAPDA, WAPDA House, Lahore
15. Director General, Pakistan Meteorological Department, Islamabad.

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**Distribution:**

16. Chief Secretary, Government of the Punjab, Lahore.
17. Chief Secretary, Government of Sindh, Karachi.
18. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
19. Chief Secretary, Government of Balochistan, Quetta.
20. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
21. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
22. Secretary, Irrigation Department, Government of the Punjab, Lahore.
23. Secretary, Irrigation Department, Government of Sindh, Karachi.
24. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
25. Secretary, Irrigation Department, Government of Balochistan, Quetta.
26. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
27. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
28. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
29. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
30. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
31. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
32. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
33. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
34. Deputy Commissioner, Muzaffarabad, Govt. of AJ&K, Muzaffarabad.
35. Principal Information Officer, Press Information Department, Islamabad.
36. Director (News), Associated Press of Pakistan, Islamabad.
37. Director (News), Pakistan Television , Islamabad.
38. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
39. Director, Irrigation & Hydel Power Merged Area Secretariat, Peshawar.

**U.O. No. FC-I (31)/2019, dated 22-09-2019**

**Discharges at Important River Sites  
September 22, 2019 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
<b>River Indus</b>					
▪ Tarbela Reservoir	1,500,000	83,000	135,000	650,000	Normal
▪ Kalabagh	950,000	134,000	126,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	174,000	169,000	650,000	Normal
▪ Taunsa <sup>^</sup>	1,000,000	148,000	123,000	650,000	Normal
▪ Guddu	1,200,000	134,000	108,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	91,000	111,000	700,000	Normal
▪ Kotri	875,000	52,000	38,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		13,000	200,000	Normal
▪ Nowshera			15,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			1,000	150,000	Normal
▪ Munda Head Works <sup>^^^</sup>	150,000		2,000	150,000	Normal
▪ Charsadda Road Bridge			1,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	12,000	31,000	225,000	Normal
▪ Rasul	850,000	25,000	12,000	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	30,000	5,000	400,000	Normal
▪ Khanki	1,100,000	9,000	1,000	400,000	Normal
▪ Qadirabad	900,000	13,000	NIL	400,000	Normal
▪ Trimmu	645,000	21,000	5,000	450,000	Normal
▪ Panjnad	700,000	16,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		4,000	150,000	Normal
▪ Shahdara	250,000		15,000	135,000	Normal
▪ Balloki	225,000	28,000	4,000	135,000	Normal
▪ Sidhnai	150,000	16,000	1,000	90,000	Normal
<b>River Sutlej</b>					
▪ Ganda Singh Wala			556		Normal
▪ Suleimanki	325,000	17,000	4,000	175,000	Normal
▪ Islam	300,000	3,000	NIL	175,000	Normal

Live Storage (MAF) <sup>+</sup>

Reservoir Elevation ( in Feet Above Mean Sea Level )		2019	2018	2017	Maximum	Today	Last Year	
<b>Tarbela:</b>	Maximum Conservation Level:	1550.00	1538.28	1519.46	1511.24	6.049	5.383	4.375
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	646.40	644.40	642.80	0.278	0.166	0.110
	Minimum Operating Level:	638.15						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1217.65	1171.55	1214.15	<u>7.356</u>	<u>5.517</u>	<u>2.742</u>
	Minimum Operating Level:	1050.00						
<b>Total live Storage</b>					<b>13.683</b>	<b>11.066</b>	<b>7.227</b>	

Skardu Temperature	Today 2019 (°C)	Last year 2018 (°C)
Maximum	28.3	28.0
Minimum	15.0	7.2
Skardu Daily Temperature (Last Week)		
Date	Maximum Temp. (°C)	Minimum Temp. (°C)
18/09/2019	21.7	10.0
19/09/2019	25.3	9.0
20/09/2019	28.1	10.0
21/09/2019	28.4	14.0

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 &amp; NR stands for "Not Received"

+ Based on IRSA's Daily Hydrological Data:9-\*--+/

^^ PID, Sindh vide letter No. DR/4-17/2015/839 dated 22-04-2015 informed that design discharge capacity of Sukkur Barrage has decreased from 1,500,000 cusecs to 900,000 cusecs due to closing of its ten (10) gates as a result of model study carried out in Poona during 1941-42 to control silting problem in right bank canals.

^ As per PID, Punjab's letter No. IWT&amp;R/14/1108/04/97 dated 17-09-2014

^^ As per PID, KP's letter No. 1271GSG-II/ dated 11-06-2018.