



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

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**DAILY FLOOD SITUATION REPORT**  
**SUNDAY AUGUST 25, 2019**

**Rivers & Reservoirs Situation:**

River Sutlej is flowing in Low Flood at Suleimanki Barrage. All other main rivers (Indus, Jhelum, Chenab & Ravi) are flowing normal. River flows at important sites, reservoir elevations & live storage of three major reservoirs and today's temperature of Skardu may be seen at **Annexure-I**.

Tarbela Dam continues to maintain Maximum Conservation Level (MCL) of **1550.00 feet** since **20<sup>th</sup> August 2019** whereas Mangla Dam is at an elevation of **1217.20 feet (24.80 feet below its MCL of 1242.00 feet)**. Today's Combined Live Storage capacity of Tarbela, Chashma & Mangla reservoirs is **11.745 MAF (85.84% of 13.683 MAF)**. **The Dam Operating Authorities are taking utmost care and vigilance in reservoir operation and strictly following SOPs & associated dam safety guidelines.**

**Weather & Rainfall Forecast:**


Yesterday's trough of Westerly Wave over Northeastern Afghanistan today lies over Northern parts of the country. Seasonal Low still persists over Northern Balochistan. Moderate moist currents from Arabian Sea and Bay of Bengal are penetrating into upper parts of the country upto 5000 feet. Yesterday's Monsoon Low over Northwestern Bay of Bengal has moved West-Northwestwards and today lies over Northwestern Orissa (India).

According to FFD, Lahore, scattered thunderstorm/rain with isolated heavy falls are expected over upper catchments of all major rivers including Rawalpindi & Gujranwala Divisions, besides, Khyber Pakhtunkhwa (Malakand, Hazara, Peshawar, Kohat & Bannu Divisions) during the next 24 hours. Isolated thunderstorm/rain may also occur over Punjab (Lahore, Faisalabad, Sargodha & D.G. Khan Divisions), D.I. Khan Division (Khyber Pakhtunkhwa) and Eastern Balochistan during the same period. Last 24 hours rainfall events may be seen at **Annexure-II**. A spell of rainfall is likely to start over Southern & Southeastern Sindh from **27<sup>th</sup> August 2019**.

PMD is monitoring the prevailing weather system and keeping all concerned fully abreast of the situation on round-the-clock basis through FFD, Lahore.

**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

  
(Alamgir Khan)  
Member (Technical)

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**Distribution:**

7. Director General, Military Operations (MO-4), General Headquarters Rawalpindi.
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11. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
12. Chairman, WAPDA, WAPDA House, Lahore.
13. Chairman, National Highway Authority, Islamabad.
14. Chairman, Indus River System Authority, Islamabad.
15. Member (Water), WAPDA, WAPDA House, Lahore.
16. Director General, Pakistan Meteorological Department, Islamabad.
17. Chief Secretary, Government of the Punjab, Lahore.
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20. Chief Secretary, Government of Balochistan, Quetta.
21. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
22. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
23. Secretary, Irrigation Department, Government of the Punjab, Lahore.
24. Secretary, Irrigation Department, Government of Sindh, Karachi.
25. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
26. Secretary, Irrigation Department, Government of Balochistan, Quetta.
27. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
28. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
29. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
30. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
31. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
32. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
33. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
34. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
35. Deputy Commissioner, Muzaffarabad, Govt. of AJ&K, Muzaffarabad.
36. Principal Information Officer, Press Information Department, Islamabad.
37. Director (News), Associated Press of Pakistan, Islamabad.
38. Director (News), Pakistan Television , Islamabad.
39. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
40. Director, Irrigation & Hydel Power Merged Area Secretariat, Peshawar.

**U.O. No. FC-I (31)/2019, dated 25-08-2019**

**Discharges at Important River Sites**  
**August 25, 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	<b>1,500,000</b>	<b>141,000</b>	<b>121,000</b>	<b>650,000</b>	<b>Normal</b>
▪ Kalabagh	<b>950,000</b>	<b>144,000</b>	<b>136,000</b>	<b>650,000</b>	<b>Normal</b>
▪ Chashma Reservoir	<b>1,000,000</b>	<b>167,000</b>	<b>148,000</b>	<b>650,000</b>	<b>Normal</b>
▪ Taunsa <sup>^</sup>	<b>1,000,000</b>	<b>167,000</b>	<b>153,000</b>	<b>650,000</b>	<b>Normal</b>
▪ Guddu	<b>1,200,000</b>	<b>217,000</b>	<b>183,000</b>	<b>700,000</b>	<b>Normal</b>
▪ Sukkur <sup>^^</sup>	<b>900,000</b>	<b>239,000</b>	<b>177,000</b>	<b>700,000</b>	<b>Normal</b>
▪ Kotri	<b>875,000</b>	<b>192,000</b>	<b>153,000</b>	<b>650,000</b>	<b>Normal</b>
<b>River Kabul</b>					
▪ Warsak	<b>540,000</b>		<b>20,000</b>	<b>200,000</b>	<b>Normal</b>
▪ Nowshera			<b>24,000</b>	<b>200,000</b>	<b>Normal</b>
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			<b>6,000</b>	<b>150,000</b>	<b>Normal</b>
▪ Munda Head Works <sup>^^^</sup>	<b>150,000</b>		<b>10,000</b>	<b>150,000</b>	<b>Normal</b>
▪ Charsadda Road Bridge			<b>8,000</b>	<b>100,000</b>	<b>Normal</b>
<b>River Jhelum</b>					
▪ Mangla Reservoir	<b>1,060,000</b>	<b>30,000</b>	<b>13,000</b>	<b>225,000</b>	<b>Normal</b>
▪ Rasul	<b>850,000</b>	<b>8,000</b>	<b>NIL</b>	<b>225,000</b>	<b>Normal</b>
<b>River Chenab</b>					
▪ Marala	<b>1,100,000</b>	<b>50,000</b>	<b>19,000</b>	<b>400,000</b>	<b>Normal</b>
▪ Khanki	<b>1,100,000</b>	<b>20,000</b>	<b>13,000</b>	<b>400,000</b>	<b>Normal</b>
▪ Qadirabad	<b>900,000</b>	<b>29,000</b>	<b>11,000</b>	<b>400,000</b>	<b>Normal</b>
▪ Trimmu	<b>645,000</b>	<b>52,000</b>	<b>39,000</b>	<b>450,000</b>	<b>Normal</b>
▪ Panjnad	<b>700,000</b>	<b>77,000</b>	<b>61,000</b>	<b>450,000</b>	<b>Normal</b>
<b>River Ravi</b>					
▪ Jassar	<b>275,000</b>		<b>16,000</b>	<b>150,000</b>	<b>Normal</b>
▪ Shahdara	<b>250,000</b>		<b>26,000</b>	<b>135,000</b>	<b>Normal</b>
▪ Balloki	<b>225,000</b>	<b>34,000</b>	<b>16,000</b>	<b>135,000</b>	<b>Normal</b>
▪ Sidhnai	<b>150,000</b>	<b>23,000</b>	<b>8,000</b>	<b>90,000</b>	<b>Normal</b>
<b>River Sutlej</b>					
▪ Ganda Singh Wala			<b>55,900</b>		<b>Normal</b>
▪ Suleimanki	<b>325,000</b>	<b>54,000</b>	<b>50,000</b>	<b>175,000</b>	<b>Low Flood (S)</b>
▪ Islam	<b>300,000</b>	<b>19,000</b>	<b>19,000</b>	<b>175,000</b>	<b>Normal</b>

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	1550.00	1543.73	6.049	6.049	6.047
	Minimum Operating Level:	1392.00					
<b>Chashma:</b>	Maximum Conservation Level:	649.00	647.60	645.50	0.278	0.211	0.139
	Minimum Operating Level:	638.15					
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1217.20	1174.00	<u>7.356</u>	<u>5.485</u>	<u>2.867</u>
	Minimum Operating Level:	1050.00					

Total Live Storage

**13.683****11.745****9.053**

Skardu Temperature	Today 2019 (°C)	Last year 2018 (°C)
Maximum	<b>28.6</b>	<b>32.6</b>
Minimum	<b>17.0</b>	<b>16.0</b>
Skardu Daily Temperature (Last Week)		
Date	Maximum Temp. (°C)	Minimum Temp. (°C)
21/08/2019	<b>23.7</b>	<b>11.0</b>
22/08/2019	<b>28.2</b>	<b>15.0</b>
23 /08/2019	<b>28.1</b>	<b>13.0</b>
24 /08/2019	<b>28.7</b>	<b>17.0</b>

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.

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SUNDAY AUGUST 25, 2019**

**Significant Rainfall Events During the Past 24 Hours**

<b>Sr. No</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
1.	Lahore	(Airport=63, Mughalpura=32, Tajpura=29, Upper Mall=17 & Township=08)
2.	Rawalakot	07
3.	Buner	05