



**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, AUGUST 18, 2020**

Riverine flow condition continues to be "Normal". **Annexure-I** depicts the same indicating inflows/outflows of main rivers besides reservoir storages and levels.

2. During the last 15 days due to comparatively high temperature over the upper catchments of River Indus, increased inflows have been noticed. Today's temperature at Skardu is 38.2°C, compared to last year's 19.8°C. Tarbela Dam has been filled by the Dam Management Authorities from elevation **1479 feet to 1532.93 feet (53.93 feet during the last 15 days)** with gain in storage of **2.597 MAF (43.42 % of Dam's live storage)**. This gain in storage has been achieved by implementing SOPs revised in 2018 based on Tarbela Dam 6<sup>th</sup> Periodic Inspection. As per previous SOPs, filling of only one (1) foot per day was permissible beyond elevation of **1510 feet**, which under the revised SOPs has been raised to **5 feet/ day upto reservoir elevation of 1530 feet and 2 feet/ day upto MCL:1550 feet** for water short years thus enabling Tarbela Dam Management to augment precious water as storage. Effort of all stakeholders is highly appreciated.

3. **Mangla Reservoir on River Jhelum is just 5.60 feet** below its Maximum Conservation Level of **1242.00 feet**. Round-the-Clock surveillance, monitoring and careful impounding/releases would be required in view of predicted rains upstream Mangla catchment.


4. **Monsoon Low** earlier over North Chhattisgarh (India) has moved towards North-Westwards and presently locating over Southeastern Uttar Pradesh (India) with less significance at the moment. **Seasonal Low** lies over Northeastern Balochistan. As per FFD, Lahore, current **weak moist currents** from Arabian Sea & Bay of Bengal penetrating into upper parts of Pakistan upto 5000 feet may significantly intensify during the next 72 hours. Further to this, trough of **Westerly Wave** over Northeastern Afghanistan has also intensified.

5. With all the three weather systems (Monsoon Low, Seasonal Low & Westerly Wave) being active, for the succeeding 24 hours, FFD, Lahore, has predicted scattered thunderstorm/rain over Punjab (**Rawalpindi, Gujranwala & Lahore Divisions**), Khyber Pakhtunkhwa (**Malakand, Hazara & Peshawar Divisions**) and Southeastern Sindh alongwith upper catchments of all the Major Rivers. Isolated thunderstorm/ rain is also likely over Sargodha, Bahawalpur & D.G. Khan Divisions (Punjab), Bannu, Kohat & D.I. Khan Divisions (KP) and Northeastern Balochistan during the same 24 hours. Prominent rainfall events reported by the FFD, Lahore, for the past 24 hours are depicted in **Annexure-II**.

6. **Rainfall Prediction For Next 72 Hours:** Fairly widespread thundershowers/ rain have been predicted by FFD, Lahore, over Islamabad, Upper Punjab (Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad & Sahiwal Divisions), Khyber Pakhtunkhwa (Chitral, Dir, Swat, Kohistan, Shangla, Abbottabad, Peshawar, Mardan, Charsadda & Kohat Districts) and **Kashmir** including upper catchments of Rivers **Jhelum, Chenab & Ravi**. Furthermore, **heavy to very heavy falls** are also expected over Islamabad, Rawalpindi, Gujranwala, Lahore & Sargodha Districts of Punjab, Abbottabad, Charsadda, Mardan, Peshawar & Nowshera Districts of KP and **Kashmir**, besides scattered thundershowers/ rain over Bhakkar, Layyah, Multan, D.G. Khan & Bahawalpur Districts of Punjab, Bannu, D.I. Khan & Waziristan Districts of KP and Zhob, Musakhel & Barkhan Districts of Balochistan during the same period.

7. **Flood Prediction For Next 72 Hours:** Under the influence of the predicted weather conditions, **Medium to High Floods** in the Nullahs of Rivers Chenab & Ravi, **Medium Flood** in **River Jhelum at Mangla** (Upstream) and flash flooding in the local Nullahs/Streams of Khyber Pakhtunkhwa & Kashmir is expected, besides **Urban Flooding** in Rawalpindi, Gujranwala & Lahore Divisions

8. At present, the overall meteorological conditions over Pakistan are very active with considerable potential of flood generating rains. For that matter, Round-the-Clock and extensive monitoring is mandatory on the part of PMD and FFD, 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. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.
4. Secretary, Ministry of Water Resources, Islamabad.
5. Secretary, Ministry of Climate Change, Islamabad.
6. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
7. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
8. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.
9. Chief Executive Officer, Pakistan Railways, Lahore.
10. Member (Infrastructure), Planning Commission, Islamabad.
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.
18. Chief Secretary, Government of Sindh, Karachi.
19. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
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. Chief Commissioner, Islamabad.
24. Secretary, Irrigation Department, Government of the Punjab, Lahore.
25. Secretary, Irrigation Department, Government of Sindh, Karachi.
26. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
27. Secretary, Irrigation Department, Government of Balochistan, Quetta.
28. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
29. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
30. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
31. Project Director/Chief Engineer, Mangla Dam Organization (MDO), WAPDA, Mangla.
32. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
33. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
34. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
35. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
36. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
37. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
38. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
39. Principal Information Officer, Press Information Department, Islamabad.
40. Director (News), Associated Press of Pakistan, Islamabad.
41. Director (News), Pakistan Television, Islamabad.
42. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.

U.O. No.FC-I (31)/2020, dated 18-08-2020

**Discharges at Important River Sites  
August 18, 2020 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	231,000	158,000	650,000	Normal
▪ Kalabagh	950,000	194,000	186,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	171,000	165,000	650,000	Normal
▪ Taunsa <sup>^</sup>	1,000,000	171,000	145,000	650,000	Normal
▪ Guddu	1,200,000	135,000	102,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	90,000	39,000	700,000	Normal
▪ Kotri	875,000	69,000	32,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		34,000	200,000	Normal
▪ Nowshera			44,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			12,000	150,000	Normal
▪ Munda Head Works <sup>^^^</sup>	150,000		8,000	150,000	Normal
▪ Charsadda Road Bridge			7,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	50,000	9,000	225,000	Normal
▪ Rasul	850,000	3,000	NIL	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	93,000	62,000	400,000	Normal
▪ Khanki	1,100,000	65,000	57,000	400,000	Normal
▪ Qadirabad	900,000	57,000	47,000	400,000	Normal
▪ Trimmu	645,000	31,000	16,000	450,000	Normal
▪ Panjnad	700,000	12,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		10,000	150,000	Normal
▪ Shahdara	250,000		23,000	135,000	Normal
▪ Balloki	225,000	37,000	5,000	135,000	Normal
▪ Sidhnai	150,000	21,000	6,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	19,000	5,000	175,000	Normal
▪ Islam	300,000	1,000	NIL	175,000	Normal

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

Reservoir Elevation ( in Feet Above Mean Sea Level )		2020	2019	2018	Maximum	Today	Last Year	
<b>Tarbela:</b>	Maximum Conservation Level:	1550.00	1532.93	1548.45	1547.00	5.980	5.021	5.961
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	644.70	641.50	647.00	0.278	0.118	0.049
	Minimum Operating Level:	637.00						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1236.40	1212.65	1169.00	<u>7.356</u>	<u>6.914</u>	<u>5.168</u>
	Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>						<b>13.614</b>	<b>12.053</b>	<b>11.178</b>

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	<b>38.2 °C</b>	<b>19.8 °C</b>
<b>Minimum</b>	<b>19.3 °C</b>	<b>13.0 °C</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 & NR stands for "Not Received"

+ Based on IRSA's Daily Hydrological Data

^^ 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&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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THURSDAY AUGUST 18, 2020**

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

<b>Sr. No.</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
<b>A</b>		
<b>Khyber Pakhtunkhwa</b>		
1.	Shinkiari	68
2.	Lower Dir	29
3.	Daggar	27
4.	Kakul	25
5.	Chakdara	15
6.	Balakot	09
7.	Mohmand Dam	06
<b>B</b>		
<b>Punjab</b>		
1.	Jhelum	48
2.	Mangla	46
3.	Islamabad	(Saidpur=45, New Airport & Shamsabad=32(each), Golra & Bokra=23(each), Zeropoint=14 & Chaklala Airbase=12)
4.	Haraman	44
5.	Murree	28
6.	Mandi Bahauddin	26
7.	Rohtas	24
8.	Sialkot	(Cantt=15 & Airport=09)
9.	Kallar	13
10.	Phulra	09
11.	Gujrat	08
12.	Shadiwal	07
<b>C</b>		
<b>Sindh</b>		
1.	Chhor	38
2.	Badin	21
3.	Mithi	06
<b>D</b>		
<b>Azad Jammu &amp; Kashmir</b>		
1.	Muzaffarabad	(Airport=34 & City=14)
2.	Domel	33
3.	Chakothe	27
4.	Tandali & Brarkot	25 each
5.	Kotli	15
6.	Chattar Kallas	12
7.	Garhi Dopatta & Nauseri	10 each
8.	Barnala	09
9.	Palandri	07

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