



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**  
**WEDNESDAY, SEPTEMBER 02, 2020**

River Indus, except for its terminal reach (Kotri - Sea) is flowing in **Low to Medium Flood** categories at all control structures (**Tarbela - Low Flood, Kalabagh - Medium Flood, Chashma-Taunsa-Guddu-Sukkur - Low Flood**). Further, River Indus tributaries (**Kabul & Swat**) are presently in **Medium Flood** respectively at Nowshera (downstream Warsak) and Munda Headworks, upstream Charsadda Bridge where it is in **High Flood** mainly due to heavy rains in the upper catchment areas of Kalam & Malam Jabba. Also, River Chenab is in **Low Flood** at **Trimmu**. Rest of the main rivers (**Jhelum, Ravi & Sutlej**) are discharging normal flows. Latest river inflows and outflows at important control points including reservoirs levels and storage positions as of 0600 hours today may be seen at **Annexure-I**.


2. **Tarbela and Mangla Reservoirs** continue to maintain their respective Maximum Conservation Levels (MCLs) of **1550.00 feet** and **1242.00 feet**. **The dam operating authorities alongwith FMC of Mangla reservoir, IRSA, PMD/FFD, Lahore, have been advised to exercise utmost care and vigilance in reservoir's operation by strictly following SOPs and associated Dam Safety Guidelines.**

3. As a result of effective reservoir (inflow/outflow) management and flood routing, **Mangla Reservoir** has attained twice its MCL during the last one week period. A flood peak of **415,000 cusecs (Cat-I Flood)** was received at Mangla on **27<sup>th</sup> August 2020** at **1800 hours (Water Level in reservoir was 1241.45 feet)** which was successfully managed by the Mangla Dam FMC following the approved SOPs-2015. The 100% storage would be beneficial in ensuring national food security needs, provision of cheap & environment friendly electricity which will ultimately strengthen country's national economy.

4. As regards Meteorological situation, **Monsoon Low** continues to prevail over Bahawalpur Division (Punjab) with **Westerly Wave Trough** lying over Kashmir & adjoining areas. FFD, Lahore has reported penetration of light to moderate **moist currents** from Arabian Sea into upper parts of Pakistan upto 4000 feet with **Seasonal Low** lies over Northeastern Balochistan.

5. Prevailing weather conditions, as per FFD, Lahore, may result into scattered wind-thunderstorm/rain with isolated **Heavy Falls** over Punjab (**Rawalpindi, Gujranwala, Sargodha, Lahore, Faisalabad, Sahiwal & Bahawalpur Divisions**) including upper catchments of all major rivers, besides, isolated wind-thunderstorm/rain over Khyber Pakhtunkhwa (**Peshawar, Kohat & D.I. Khan Divisions**) during the ensuing 24 hours. FFD, Lahore, has predicted significant decrease in rainfall activity from **5<sup>th</sup> September, 2020** with **Low to Medium Flood** wave will continue in the **River Indus** during the week. As may be seen from **Annexure-II**, during the last 24 hours no rain has been reported for the urban flood hit Sindh including Balochistan. Contrary to this, the upper catchment of River Indus has received much rains besides the catchment areas of River Jhelum (**Annexure-II**).

6. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD)/FFD, Lahore, especially with respect to intensity and further movement of **Monsoon Low** presently lying over Bahawalpur Division of Punjab. FFD, Lahore, is keeping all concerned fully informed of the meteorological situation.

  
(Ahmed Kamal)  
Chief Engineering Advisor/  
Chairman, Federal Flood Commission

**Distribution:**

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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.
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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.
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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 02-09-2020

**Discharges at Important River Sites  
September 02, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Flood Classification*
		In Flow	Out Flow		
<b>River Indus</b>					
▪ Tarbela Reservoir	1,500,000	384,000	302,000	650,000	Low Flood (R)
▪ Kalabagh	950,000	405,000	400,000	650,000	Medium Flood (R)
▪ Chashma Reservoir	1,000,000	352,000	350,000	650,000	Low Flood (R)
▪ Taunsa ^	1,000,000	355,000	355,000	650,000	Low Flood (F)
▪ Guddu	1,200,000	308,000	305,000	700,000	Low Flood (R)
▪ Sukkur ^^	900,000	262,000	255,000	700,000	Low Flood(R)
▪ Kotri	875,000	153,000	153,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		25,000	200,000	Normal
▪ Nowshera			107,000	200,000	Medium Flood (R)
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			49,000	150,000	Low Flood (R)
▪ Munda Head Works ^^^	150,000		90,000	150,000	Medium Flood (R)
▪ Charsadda Road Bridge			87,000	100,000	High Flood (R)
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	60,000	57,000	225,000	Normal
▪ Rasul	850,000	53,000	53,000	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	75,000	65,000	400,000	Normal
▪ Khanki	1,100,000	71,000	65,000	400,000	Normal
▪ Qadirabad	900,000	78,000	56,000	400,000	Normal
▪ Trimmu	645,000	164,000	155,000	450,000	Low Flood (F)
▪ Panjnad	700,000	96,000	86,000	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		14,000	150,000	Normal
▪ Shahdara	250,000		11,000	135,000	Normal
▪ Balloki	225,000	40,000	15,000	135,000	Normal
▪ Sidhnai	150,000	33,000	29,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	19,000	6,000	175,000	Normal
▪ Islam	300,000	5,000	4,000	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	1550.00	1550.00	1550.00	5.980	5.980	6.049
	Minimum Operating Level:	1392.00						
<b>Chashma:</b>	Maximum Conservation Level:	649.00	638.15	649.00	647.00	0.278	0.000	0.278
	Minimum Operating Level:	637.00						
<b>Mangla:</b>	Maximum Conservation Level:	1242.00	1242.00	1220.70	1177.00	<u>7.356</u>	<u>7.356</u>	<u>5.732</u>
	Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>					<b>13.614</b>	<b>13.336</b>	<b>12.059</b>	

Skardu Temperature	Today 2020	Last year 2019
<b>Maximum</b>	27.1 °C	27.0 °C
<b>Minimum</b>	13.3 °C	15.0 °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)

\*\* (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

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

Sr. No.	City/Observatory	Rainfall (mm)
<b>A. ISLAMABAD</b>		
1.	Islamabad	(New Airport=73, Golra=44, Saidpur=29, Zeropoint=23, Shamsabad=21, Bokra=19 & Chaklala=17)
<b>B. PUNJAB</b>		
1.	Noorpur Thal	103
2.	Phulra	90
3.	Kamra	79
4.	Jhang	75
5.	Attock	72
6.	Joharabad	65
7.	Bhakkar	50
8.	Shorkot	44
9.	Bhoun	34
10.	Murree	30
11.	Chakwal	29
12.	Layyah	28
13.	Khanewal	26
14.	Mianwali	24
15.	Faisalabad	10
<b>C. SINDH</b>		
Nil		
<b>D. KHYBER PAKHTUNKHWA</b>		
1.	Oghi	165
2.	Malam Jabba	135
3.	Balakot	112
4.	Besham	102
5.	Shinkiari	94
6.	Pattan	91
7.	Cherat	85
8.	Kakul	82
9.	Risalpur	72
10.	D.I. Khan	70
11.	Buner & Chakdara	66 each
12.	Saidu Sharif	61
13.	Daggar	58
14.	Kohat	55
15.	Kalam	50
16.	Dir	49
17.	Rashid Abad (Kalpani)	46
18.	Lower Dir	44
19.	Tarbela	38
20.	Takhtbai	36

<b>Sr. No.</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
21.	Tanda Dam	29
22.	Peshawar	(City=28 & Airbase=21)
23.	Mohmand Dam	18
24.	Mirkhani	17
25.	Chitral	16
26.	Drosh	12
27.	Nowshera	11
<b>E.</b>	<b>BALUCHISTAN</b>	
	Nil	
<b>F.</b>	<b>AZAD JAMMU &amp; KASHMIR</b>	
1.	Muzaffarabad	(City=130 & Airport=48)
2.	Brarkot	85
3.	Domel	78
4.	Haraman	59
5.	Tandali	37
6.	Chattar Kallas	35
7.	Palandri & Garhi Dopatta	14 each
<b>G.</b>	<b>GILGIT BALTISTAN</b>	
1.	Gupis	15
2.	Chilas	13

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