



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, SEPTEMBER 01, 2020


Only River Indus at present is flowing in **Medium Flood** at Taunsa (upstream Guddu). Besides it is flowing in **Low Flood** in "**Guddu-Sukkur Reach**" with River Chenab also in **Low Flood** at **Trimmu** (upstream Panjnad) with rising trend. Rest of the main rivers (**Jhelum, Ravi & Sutlej**) are flowing normal. 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 Reservoir** continues to maintain its Maximum Conservation Level (MCL) of **1550.00 feet** since **28th August 2020**, whereas **Mangla Reservoir** has again attained MCL of **1242.00 feet** as a result of impounding of increased inflows. **The dam operating authorities alongwith FMC of Mangla reservoir, IRSA, PMD/FFD, Lahore, are advised to exercise utmost care and vigilance in reservoir's operation by strictly following SOPs and associated Dam Safety Guidelines.**

3. **Monsoon Low** earlier over Western Rajasthan (India) & adjoining areas has approached Pakistan and today lies over Bahawalpur Division (Punjab, Pakistan). Yesterday's Trough of **Westerly Wave** over Northern parts of Afghanistan is presently prevailing over Northern parts of Pakistan with **Seasonal Low** over Northeastern Balochistan. Moderate **moist currents** from Arabian Sea are penetrating into upper parts of Pakistan upto 5000 feet.

4. Under the influence of prevailing weather conditions, FFD, Lahore, has predicted widespread thunderstorm/rain with **Heavy to Very Heavy Falls** over **Rawalpindi Division** (Punjab) and **Peshawar Division** (Khyber Pakhtunkhwa) including upper catchments of Rivers **Kabul & Indus** during the next 24 hours. As a consequence **River Indus** at **Tarbela** is likely to attain **Medium Flood** stage during the next 24 hours for which all concerned authorities are advised to remain **ALERT** and ensure necessary precautionary measures. Scattered wind-thunderstorm/rain with isolated **Heavy Falls** may also occur over Punjab (**Gujranwala, Sargodha, Lahore, Multan, Bahawalpur & D.G. Khan Divisions**), Khyber Pakhtunkhwa (**Bannu, Kohat & D.I. Khan Divisions**) including upper catchments of **Rivers Jhelum, Chenab, Ravi & Sutlej**, besides, isolated wind-thunderstorm/rain over Punjab (**Faisalabad & Sahiwal Divisions**) during the same period. Last 24 hours prominent rainfall events may be seen at **Annexure-II**.

5. Round-the-Clock monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD)/FFD, Lahore, especially with respect to intensity and impact 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:

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 01-09-2020

**Discharges at Important River Sites
September 01, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Flood Classification*
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	158,000	201,000	650,000	Normal
▪ Kalabagh	950,000	247,000	240,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	236,000	233,000	650,000	Normal
▪ Taunsa [^]	1,000,000	379,000	379,000	650,000	Med. Flood (R)
▪ Guddu	1,200,000	268,000	282,000	700,000	Low Flood (R)
▪ Sukkur ^{^^}	900,000	218,000	215,000	700,000	Low Flood(R)
▪ Kotri	875,000	149,000	148,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		28,000	200,000	Normal
▪ Nowshera			40,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			22,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		9,000	150,000	Normal
▪ Charsadda Road Bridge			7,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	55,000	29,000	225,000	Normal
▪ Rasul	850,000	37,000	37,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	82,000	77,000	400,000	Normal
▪ Khanki	1,100,000	92,000	86,000	400,000	Normal
▪ Qadirabad	900,000	78,000	56,000	400,000	Normal
▪ Trimmu	645,000	206,000	196,000	450,000	Low Flood (R)
▪ Panjnad	700,000	55,000	43,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		8,000	150,000	Normal
▪ Shahdara	250,000		11,000	135,000	Normal
▪ Balloki	225,000	42,000	17,000	135,000	Normal
▪ Sidhnai	150,000	33,000	29,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	21,000	8,000	175,000	Normal
▪ Islam	300,000	3,000	2,000	175,000	Normal

Live Storage (MAF) ⁺

Reservoir Elevation (in Feet Above Mean Sea Level)		2020	2019	2018	Maximum	Today	Last Year	
Tarbela:	Maximum Conservation Level:	1550.00	1550.00	1550.00	1550.00	5.980	5.980	6.049
	Minimum Operating Level:	1392.00						
Chashma:	Maximum Conservation Level:	649.00	638.15	649.00	647.50	0.278	0.000	0.278
	Minimum Operating Level:	637.00						
Mangla:	Maximum Conservation Level:	1242.00	1242.00	1220.35	1176.75	<u>7.356</u>	<u>7.356</u>	<u>5.706</u>
	Minimum Operating Level:	1050.00						
Total Live Storage					13.614	13.336	12.033	

Skardu Temperature	Today 2020	Last year 2019
Maximum	22.3 °C	27.0 °C
Minimum	11.2 °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 & 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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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
A.	Islamabad	(New Airport=46, Zeropoint=38, Chaklala (Airbase)=32, Golra=20, Shamsabad=11, Bokra=09 & Saidpur=08),
B.	PUNJAB	
1.	Joharabad	166
2.	Bhoun	160
3.	Noorpur Thal	143
4.	Multan	(Shujabad=102, Chungi No.9=99, Sameejabad=75, City=69, Airport=59 & Kiri Jamandan=27),
5.	Mianwali	102
6.	Attock & Sargodha (Airbase)	93 each
7.	Kamra	85
8.	Bahawalpur	(City=75 & Airport=62).,
9.	Kot Addu	70
10.	Layyah	64
11.	Bhakkar	62
12.	D.G. Khan	(Vehova=61, Airport=32, Zain Sanghar=31, Mari=24, Bela Vidore =19 & Fort Munro=10)
13.	Bhanduwala & Khanewal	46 each
14.	Rahim Yar Khan	45
15.	Okara	43
16.	Mangla & Kallar	38 each
17.	Murree	33
18.	Jhang	28
19.	Shorkot	24
20.	Dhokpathan	21
21.	Phulra	18
22.	Chakwal	17
23.	Faisalabad	16
24.	Khanpur	11
C.	SINDH	
1.	Chhor	83
2.	Thatta	23
3.	Badin	15
4.	Hyderabad	13
5.	Shaheed Benazeerabad	12
D.	KHYBER PAKHTUNKHWA	
1.	Malam Jabba	129
2.	Oghi	66
3.	Besham & Cherat	62 each
4.	Kalam & Risalpur	57 each
5.	Daggar	56
6.	Saidu Sharif	51

Sr. No.	City/Observatory	Rainfall (mm)
7.	Pattan	50
8.	Buner	49
9.	Chakdara	39
10.	D.I. Khan	36
11.	Tanda Dam	35
12.	Shinkiari, Kakul, Kohat & Lower Dir	33 each
13.	Rashid Abad (Kalpani)	32
14.	Dir	30
15.	Balakot	29
16.	Takhtbai	27
17.	Peshawar	(City=19 & Airbase=15)
18.	Tarbela	17
19.	Chitral	15
20.	Drosh	14
E.	BALUCHISTAN	
1.	Nil	
F.	AJ&K	
1.	Palandri & Chattar Kallas	53 each
2.	Muzaffarabad	(Airport=49 & City=42)
3.	Brarkot	40
4.	Tandali	39
5.	Garhi Dopatta & Kotli	38 each
6.	Domel	36
7.	Rawalakot, Chakothi & Haraman	21 each
8.	Bandi Abbaspur	17
9.	Nauseri	10
G.	G-B	
1.	Gupis	19

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