



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
SATURDAY, AUGUST 29, 2020

River Chenab is flowing in **High Flood** at Qadirabad Barrage and **Low Flood** in "Marala-Khanki Reach". River Jhelum is also at **Medium Flood Stage** in "Mangla-Rasul Reach" whereas River Indus in "Kalabagh-Chashma Reach" & "Guddu-Sukkur Reach" and River Kabul at Nowshera are flowing in **Low Flood**. Other main rivers (Ravi & Sutlej) are flowing normal. It is anticipated that River Chenab at Trimmu is likely to attain **Low to Medium Flood level** during the next 24 hours (**30th August 2020**). The discharges of main rivers at important control structures and water levels & storage position of major reservoirs as of 0600 hours today may be seen at **Annexure-I**.

2. **Tarbela and Mangla** reservoirs have attained their respective Maximum Conservation Levels of **1550.00 feet & 1242.00 feet** on **28th August 2020** and remained at the same levels today. Today's Combined Live Storage of major reservoirs (**Tarbela, Mangla & Chashma**) is **13.371 MAF** (i.e. **98.21%** of existing storage capacity of **13.614 MAF**). **The Dam operating authorities including FMC of Mangla, IRSA, PMD/FFD, Lahore are advised to take utmost care and exercise extra vigilance in reservoir's operation and strictly follow SOPs and associated Dam Safety Guidelines.**

3. Yesterday's **Depression** over Northern Chattisgarh (India) today lies over Northeastern Madhya Pradesh (India). Yesterday's trough of **Westerly Wave** over Kashmir has moved away Eastwards and a fresh trough of **Westerly Wave** lies over Northwest Iran. Weak Seasonal Low lies over Northern Balochistan whereas weak moist currents from Arabian Sea are penetrating into upper parts of the country upto 3000 feet.

4. Under the influence of prevailing weather system, isolated thunderstorm/rain are expected over Rawalpindi, Gujranwala & Lahore Divisions (Punjab) including upper catchments of all the Major Rivers, besides, Khyber Pakhtunkhwa, South & Southeastern Sindh and Northeastern Balochistan during the next 24 hours. **Annexure-II** depicts significant rainfall events recorded during the past 24 hours.

Weather & Flood Forecast for next 48 Hours (30th & 31st August 2020):


5. According to FFD, Lahore, rain/wind-thundershower with isolated **Heavy to Very Heavy Falls** is expected over Karachi, Hyderabad, Thatta, Badin, Shaheed Benazirabad, Dadu, Tharparker, Nagarparker, Mirpurkhas, Islam Kot, Umar Kot, Sanghar, Sukkur & Larkana Districts (Sindh) during the next 48 hours (30th & 31st 2020). Rain-thundershowers with isolated **Heavy Falls** is also expected over Lasbella, Khuzdar, Awaran, Barkhan, Zhob, Musa Khel, Loralai, Kohlu & Sibbi Districts (Balochistan), besides, rain-thundershowers over Bahawalpur, Rahim Yar Khan, Khanpur, Rajanpur, DG Khan, Multan, Khanewal (Punjab) during the same period.

6. As a result, flows are also likely to increase up to **Medium to High Flood Level** in the nullahs of Rivers **Chenab & Ravi** during the next 24 Hours. The predicted **heavy rainfall** may further aggravate the existing **urban flooding** in **Karachi, Hyderabad, Thatta, Mirpurkhas and Badin during the next 24-48 hours**. **Heavy downpour** may cause **flash flooding** in Balochistan (**Districts Sibbi, Kalat, Khuzdar & Lasbella**) and Punjab (**D.G. Khan**) during the same period.

Precautionary measures by all concerned organizations:

7. In view of the above likely Hydro-Meteorological situation, all concerned authorities, especially PDMAs, DDMA's, Districts Administration & Provincial Irrigation Departments are strictly advised to remain **Fully Alert**, watch the situation critically and take all necessary precautionary measures well in time to avoid loss of precious human lives and damage to private & public property.

8. Round-the-Clock active monitoring of prevailing weather system is being done by Pakistan Meteorological Department (PMD)/FFD, Lahore, especially with respect to tracking further movement, intensity and impact of **Depression** presently lying over Northeastern Madhya Pradesh (India) and updating Mangla FMC with regard to inflows in Mangla reservoir. FFD, Lahore, is also keeping all concerned fully informed regarding overall 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.
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 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.
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 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 29-08-2020

**Discharges at Important River Sites
August 29, 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	243,000	236,000	650,000	Normal
▪ Kalabagh	950,000	323,000	316,000	650,000	Low Flood (R)
▪ Chashma Reservoir	1,000,000	310,000	305,000	650,000	Low Flood (R)
▪ Taunsa [^]	1,000,000	223,000	212,000	650,000	Normal
▪ Guddu	1,200,000	226,000	216,000	700,000	Low Flood (F)
▪ Sukkur ^{^^}	900,000	205,000	200,000	700,000	Low Flood(F)
▪ Kotri	875,000	60,000	61,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		35,000	200,000	Normal
▪ Nowshera			88,000	200,000	Low Flood (R)
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			16,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		18,000	150,000	Normal
▪ Charsadda Road Bridge			15,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	55,000	38,000	225,000	Normal
▪ Rasul	850,000	113,000	113,000	225,000	Medium Flood (R)
River Chenab					
▪ Marala	1,100,000	127,000	121,000	400,000	Low Flood (F)
▪ Khanki	1,100,000	149,000	144,000	400,000	Low Flood (F)
▪ Qadirabad	900,000	218,000	209,000	400,000	High Flood (R)
▪ Trimmu	645,000	96,000	84,000	450,000	Normal
▪ Panjnad	700,000	53,000	38,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		22,000	150,000	Normal
▪ Shahdara	250,000		31,000	135,000	Normal
▪ Balloki	225,000	63,000	37,000	135,000	Normal
▪ Sidhnai	150,000	25,000	9,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	19,000	6,000	175,000	Normal
▪ Islam	300,000	7,000	5,000	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
	Minimum Operating Level:	1392.00					6.049
Chashma:	Maximum Conservation Level:	649.00	640.70	649.00	648.50	0.278	0.278
	Minimum Operating Level:	637.00					
Mangla:	Maximum Conservation Level:	1242.00	1242.00	1219.15	1176.00	<u>7.356</u>	<u>5.621</u>
	Minimum Operating Level:	1050.00					
Total Live Storage					13.614	13.371	11.948

Skardu Temperature	Today 2020	Last year 2019
Maximum	19.6 °C	24.5 °C
Minimum	12.4 °C	14.1 °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. Sindh		
1.	Karachi	(Saadi Town=86 and Gulshan- e-Hadeed=84
2.	Thatta	13
3.	Mithi	11
B. Azad Jammu & Kashmir		
1.	Chakothe	29
2.	Muzaffarabad	(City=07 & Airport=10)
3.	Domel	14
4.	Chattar Kallas	10
5.	Garhi Dupatta	07
6.	Nusari	05
C Punjab		
1	Sialkot	Cantt=27
2	Shadiwal	62
3	Shorkot	25
4	Narowal & Khanewal	17 each
5	Murree	11
6	D.G.Khan (Zain Sanghar)	06
7	Multan	City 05
8	Sahiwal	05
D. Khyber Pakhtunkhwa		
1.	Shinkiari	16
2.	Malam Jabba	08
3.	Kakul	14
4.	Cherat	11
5.	Saidu Sharif	07
6.	Besham	06
E. Gilgit Baltistan		
1.	Astore	07
2.	Bunji	11

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