



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
FRIDAY JULY 17, 2020


There is no riverine flood situation in the country as all main rivers are flowing "Normal". Mangla Dam Reservoir is appreciably in a very sound state with **83%** storage available against last year's storage of **34.6%**. Owing to its present level (**1225.95 feet** against **MCL: 1242.00 feet**), utmost vigilance both by the Dam Management and the Flood Mitigation Committee in addition to IRSA and FFD, Lahore, is mandatory to ensure dam safety, absorb any sudden high discharge and in view of precautions needed as a result of September 2019 earthquake in the area.

2. As per FFD, Lahore, yesterday's upper air circulation (extension of Monsoon Low in upper air) over Northern Maharashtra (India) has moved Westwards and now prevails over Southern Gujarat (India) & adjoining areas. Besides this, a weak Seasonal Low prevails over Eastern Balochistan resulting into penetration of Arabian Sea moist currents into upper part of Pakistan upto 5000 feet. Also yesterday's Westerly Wave trough continues to persist over Northern Afghanistan.

3. As per the prediction of FFD, Lahore, the prevailing meteorological conditions, over the next 24 hours, may result into scattered wind-thunderstorm/ rain of moderate intensity over D.I. Khan Division (Khyber Pakhtunkhwa) and D.G. Khan Division (Punjab) with isolated thunderstorm/ rain over the upper catchment of all the major rivers, South-East Sindh, East Balochistan including the rest of Khyber Pakhtunkhwa and Punjab.

4. In a Weekly Timeframe (**18th July, 2020 to 24th July, 2020**) FFD Lahore's Rainfall Outlook predicts scattered to widespread wind thunderstorm/ rain with **heavy falls** at isolated places and **very heavy falls** at a few places over River Chenab, Ravi and Sutlej upper catchments, North- North East Punjab (including Sargodha, D.G. Khan Divisions) and D.I. Khan Division (KP). During the period from **19th July, 2020 to 22nd July, 2020** moderate intensity thunderstorm/ rain may occur over the River Jhelum upper catchments besides, over Peshawar, Kohat and Bannu Divisions (KP) and Rawalpindi Division (Punjab). This may result into increased discharges in Rivers Jhelum, Chenab, Ravi and Sutlej (including their associated Nullahs), besides light to moderate flows in hill torrents of D.G. Khan Division (Punjab).

5. Prevailing meteorological conditions are being closely monitored by Pakistan Meteorological Department through its Central Flood Forecasting Division based at Lahore with specific reference to the further orientation of upper air circulation currently over Southern Gujrat (India) and adjoining areas.


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

Distribution:

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25. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
26. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
27. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
28. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
29. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
30. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
31. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
32. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
33. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
34. Principal Information Officer, Press Information Department, Islamabad.
35. Director (News), Associated Press of Pakistan, Islamabad.
36. Director (News), Pakistan Television, Islamabad.
37. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
U.O. No. FC-I (31)/2020, dated 17-07-2020

**Discharges at Important River Sites
July 17, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	145,000	149,000	650,000	Normal
▪ Kalabagh	950,000	221,000	213,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	227,000	220,000	650,000	Normal
▪ Taunsa [^]	1,000,000	230,000	203,000	650,000	Normal
▪ Guddu	1,200,000	175,000	141,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	125,000	68,000	700,000	Normal
▪ Kotri	875,000	62,000	22,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		32,000	200,000	Normal
▪ Nowshera			49,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			16,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		13,000	150,000	Normal
▪ Charsadda Road Bridge			10,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	36,000	20,000	225,000	Normal
▪ Rasul	850,000	20,000	12,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	63,000	30,000	400,000	Normal
▪ Khanki	1,100,000	33,000	25,000	400,000	Normal
▪ Qadirabad	900,000	29,000	7,000	400,000	Normal
▪ Trimmu	645,000	26,000	11,000	450,000	Normal
▪ Panjnad	700,000	13,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		8,000	150,000	Normal
▪ Shahdara	250,000		25,000	135,000	Normal
▪ Balloki	225,000	44,000	13,000	135,000	Normal
▪ Sidhnai	150,000	24,000	9,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	23,000	10,000	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	1455.39	1483.39	1427.24	5.980	1.418	2.657
	Minimum Operating Level:	1392.00						
Chashma:	Maximum Conservation Level:	649.00	646.70	645.00	643.90	0.278	0.176	0.125
	Minimum Operating Level:	637.00						
Mangla:	Maximum Conservation Level:	1242.00	1225.95	1167.45	1125.10	<u>7.356</u>	<u>6.119</u>	<u>2.543</u>
	Minimum Operating Level:	1050.00						
Total Live Storage					13.614	7.713	5.325	

Skardu Temperature	Today 2020	Last year 2019
Maximum	27.7 °C	33.2 °C
Minimum	15.3 °C	23.0 °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	Punjab	
1.	Lahore	(Samanabad= 55, Gulshan-e-Ravi=47, Jail Road=43, Lukshmi & Shahi Qilla=40(each), Township=37, Punjab University & Iqbal Town=35(each), Upper Mall=32, Gulberg=30, Johar Town=29, Misri Shah & Shahdara=24(each), Airport=18, Mughal Pura= 13 & Taj Pura= 10)
2.	Bhakkar	49
3.	Layyah	30
4.	Kot Addu	17
5.	DG Khan (Fort Munro)	10
B	Balochistan	
1.	Sibbi	17
2.	Lasbela	10
3.	Barkhan	07
C	Sindh	
1.	Chhor	15
2.	Karachi	(Met Complex & University Road=13(each))
3.	Padidan	05

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