



**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 JULY 18, 2020**


All main rivers are flowing normal and presently there is no riverine flood situation in the country. Today's Combined Live Storage of Tarbela, Mangla & Chashma is **7.729 MAF (56.77%** of the total existing Live Storage Capacity of **13.614 MAF**) as reflected in **Annexure-I**. Considering the much higher water level at Mangla Reservoir this year as compared to last year ( **i.e. 1226.20 feet against 1169.00 feet of last year**), continuous vigilance by all including the Dam Management, Flood Mitigation Committee of Mangla Dam, IRSA and FFD, Lahore would be mandatory so that the dam safety and regulation of any sudden high discharges is not compromised. This year there is much variance in the inflows at Tarbela owing to continuous fluctuations in temperature at Skardu. A comparison of discharge of Indus River at Partab Bridge (1<sup>st</sup> Guage Station at Indus River near Jaglote) is attached at **Annexure-II**, indicating a discharge variance as much as 126,900 Cusecs (July 12,2019 Vs July 12, 2020).

2. As per FFD, Lahore, upper air circulation (extension of Monsoon Low in upper air) earlier over Southern Gujarat (India) & adjoining areas presently prevails over Arabian Sea and is anticipated insignificant with Westerly Wave trough continues to prevail over Northern Afghanistan, besides weak Seasonal Low lies over Northwestern Balochistan. At present Arabian Sea's weak moist currents are penetrating into upper parts of the country upto 5000 feet.

3. For the ensuing 24 hours, FFD, Lahore has predicted isolated wind thunderstorm/rain of "**Light to Moderate Intensity**" over Punjab, Sindh, Khyber-Pakhtunkhwa, Coastal and Northeastern Balochistan, Gilgit Baltistan and Kashmir including upper catchments of all the major rivers. Some prominent rainfall events reported by FFD, Lahore for the past 24 hours may be seen at **Annexure-III**.

4. **Predicted Met Conditions (Next 72 hours):** Scattered to widespread wind thunderstorm/rain with **Heavy falls** at isolated places and **Very Heavy Falls** at few places has been predicted by FFD, Lahore over Gujranwala, Lahore, Sargodha, Sahiwal, Faisalabad, Bahawalpur, D.G. Khan Divisions (Punjab), D.I. Khan Division (KP) including upper catchments of rivers Chenab, Ravi & Sutlej during the **next 72 hours**. Scattered wind thunderstorm/rain of moderate intensity with few **Heavy Falls** may also occur over Rawalpindi & Multan Divisions of Punjab, Malakand, Hazara, Peshawar, Kohat & Bannu Divisions of Khyber Pakhtunkhwa and Northeastern Balochistan, besides over upper catchments of rivers Indus & Jhelum during the same period. Flows are likely to increase in Rivers Jhelum, Chenab, Ravi and Sutlej (**20<sup>th</sup> July, 2020 to 22<sup>nd</sup> July, 2020**) while **moderate flooding** is expected in the Nullahs of Rivers Ravi & Chenab along with Hill Torrents of D.G. Khan Divisions during the same period.

5. Pakistan Meteorological Department (PMD) is actively monitoring the prevailing weather system with regards to its movement and intensity on Round-the-Clock basis and is keeping all concerned informed through its central Flood Forecasting Division in Lahore.

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

**Distribution:**

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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. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
31. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
32. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
33. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
34. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
35. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
36. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
37. Principal Information Officer, Press Information Department, Islamabad.
38. Director (News), Associated Press of Pakistan, Islamabad.
39. Director (News), Pakistan Television, Islamabad.
40. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.  
U.O. No. FC-I (31)/2020, dated 18-07-2020

**Discharges at Important River Sites  
July 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	171,000	152,000	650,000	Normal
▪ Kalabagh	950,000	225,000	217,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	227,000	220,000	650,000	Normal
▪ Taunsa <sup>^</sup>	1,000,000	224,000	200,000	650,000	Normal
▪ Guddu	1,200,000	182,000	150,000	700,000	Normal
▪ Sukkur <sup>^^</sup>	900,000	128,000	70,000	700,000	Normal
▪ Kotri	875,000	51,000	18,000	650,000	Normal
<b>River Kabul</b>					
▪ Warsak	540,000		33,000	200,000	Normal
▪ Nowshera			49,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>					
▪ Chakdara Bridge			16,000	150,000	Normal
▪ Munda Head Works <sup>^^^</sup>	150,000		18,000	150,000	Normal
▪ Charsadda Road Bridge			11,000	100,000	Normal
<b>River Jhelum</b>					
▪ Mangla Reservoir	1,060,000	34,000	23,000	225,000	Normal
▪ Rasul	850,000	20,000	12,000	225,000	Normal
<b>River Chenab</b>					
▪ Marala	1,100,000	63,000	30,000	400,000	Normal
▪ Khanki	1,100,000	23,000	15,000	400,000	Normal
▪ Qadirabad	900,000	30,000	8,000	400,000	Normal
▪ Trimmu	645,000	23,000	8,000	450,000	Normal
▪ Panjnad	700,000	15,000	NIL	450,000	Normal
<b>River Ravi</b>					
▪ Jassar	275,000		13,000	150,000	Normal
▪ Shahdara	250,000		26,000	135,000	Normal
▪ Balloki	225,000	46,000	14,000	135,000	Normal
▪ Sidhnai	150,000	23,000	8,000	90,000	Normal
<b>River Sutlej</b>					
▪ Suleimanki	325,000	21,000	9,000	175,000	Normal
▪ Islam	300,000	7,000	5,000	175,000	Normal

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

<u>Reservoir Elevation ( in Feet Above Mean Sea Level )</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>Maximum</u>	<u>Today</u>	<u>Last Year</u>	
<b>Tarbela:</b> Maximum Conservation Level:	1550.00	1455.10	1486.90	1434.75	5.980	1.406	2.813
Minimum Operating Level:	1392.00						
<b>Chashma:</b> Maximum Conservation Level:	649.00	646.00	644.60	645.60	0.278	0.186	0.115
Minimum Operating Level:	637.00						
<b>Mangla:</b> Maximum Conservation Level:	1242.00	1226.20	1169.00	1126.75	<u>7.356</u>	<u>6.137</u>	<u>2.802</u>
Minimum Operating Level:	1050.00						
<b>Total Live Storage</b>				<b>13.614</b>	<b>7.729</b>	<b>5.730</b>	

<b>Skardu Temperature</b>	<b>Today 2020</b>	<b>Last year 2019</b>
<b>Maximum</b>	28.8 °C	34.3 °C
<b>Minimum</b>	17.3 °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 &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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**2019-2020 Comparison of Discharges of Indus River at Partab Bridge  
(9<sup>th</sup> July to 18<sup>th</sup> July)**

<b>S.No</b>	<b>Date</b>	<b>Discharge (Cusecs) 2019</b>	<b>Discharge (Cusecs) 2020</b>	<b>Variance (Cusecs)</b>
1	09-Jul	215,600	136,800	78,800
2	10-Jul	246,700	156,400	90,300
3	11-Jul	271,600	155,000	116,600
<b>4</b>	<b>12-Jul</b>	<b>280,400</b>	<b>153,500</b>	<b>126,900</b>
5	13-Jul	275,300	151,600	123,700
6	14-Jul	274,300	152,100	122,200
7	15-Jul	260,200	140,400	119,800
8	16-Jul	258,400	139,300	119,100
9	17-Jul	239,200	142,300	96,900
10	18-Jul	225,000	156,400	68,600

**Source: Surface Water Hydrology, WAPDA, Lahore**

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

<b>Sr. No</b>	<b>City/Observatory</b>	<b>Rainfall (mm)</b>
<b>A Sindh</b>		
1.	Karachi	(Faisal Base= 64,Saddar=42,Gulshan e Hadeed & Landhi= 40 (each), Kemari=38, Airport= 28, University Road=16 , Jinnah Terminal=15, Nazimabad=09 & Masroor Base=06)
2.	Thatta	34
3.	Mirpur Khas	18
4.	Sakrand	10
5.	Hyderabad	06
6.	Tando Jam	05
<b>B Khyber Pakhtunkhwa</b>		
1.	Daggar	46
2.	Kohat	25
3.	Takhtbai	10
4.	Pattan	09
5.	Buner	07
6.	Besham	06
<b>C Punjab</b>		
1.	Kasur	29
2.	Islamabad	(Chaklala Airbase=22, Shamsabad=21, Zeropoint =15 & Bokra=14)
3.	Attock	10
<b>D Azad Jammu and Kashmir</b>		
1.	Rawalakot	05

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