



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
MONDAY JULY 20, 2020

All main rivers of Indus River System are flowing with "Normal Flows" and there is no riverine flood situation in the country. Combined storage position of major reservoirs, water levels, Skardu Temperature and discharges of main rivers at important sites today at 0600 hours may be seen at **Annexure-I**. Although the combined water storage of Tarbela, Chashma and Mangla reservoirs is **7.548 MAF (55.44% of the 13.614 MAF)**, which somehow is higher than the corresponding value of last year i.e. **6.005 MAF**. However, the storage of Tarbela Dam is **1.147 MAF Vs 3.092 MAF** of last year due to fluctuations of temperature in upper catchment of Indus River. Both Tarbela Dam Management authorities and IRSA are advised for judicious releases as per approved SOPs.

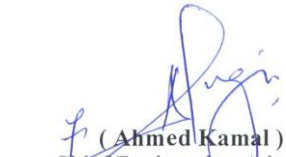
2. In view of the higher water level of Mangla reservoir (i.e. **1226.70 feet**) as compared to the last year (i.e. **1172.75 feet**) against the **MCL: 1242.00 feet**, extra vigilance both by the Mangla Dam Management, Flood Mitigation Committee (FMC) including IRSA and FFD, Lahore is seen as an absolute necessity to ensure dam safety and to regulate surplus flood water as a consequence of any flood generating meteorological activity.

3. As reported by FFD, Lahore, moderate moist currents from Arabian Sea are penetrating into upper parts of the country upto 6000 feet with Seasonal Low continues to prevail over Northern Balochistan. Westerly Wave trough earlier over Northeastern Afghanistan has slightly moved and today lies over Northern parts of Pakistan.

4. As predicted by FFD Lahore, scattered to widespread wind thunderstorm/rain with **Heavy Falls** at isolated places and **Very Heavy Falls** at few places are expected over Gujranawala, Faisalabad, Sargodha, Lahore, Sahiwal, Bahawalpur & D.G. Khan Divisions (Punjab) and D.I. Khan Division (Khyber Pakhtunkhwa) including upper catchments of Rivers Chenab, Ravi & Sutlej during the next 24 hours. Scattered wind thunderstorm/rain of moderate intensity with few **Heavy Falls** may also occur over Punjab (Rawalpindi & Multan Divisions), KP (Malakand, Hazara, Peshawar, Kohat & Bannu Divisions), Northeastern Balochistan and upper catchments of Rivers Indus & Jhelum during the same period.

5. Under the influence of prevailing weather system, sharp peaks upto Medium Flood Level are expected in River Jhelum at Mangla (Inflows), while moderate flooding in the Nullahs of Rivers Ravi & Chenab including Hill Torrents of D.G. Khan Division, besides, urban flooding in Gujranawala, Faisalabad & Lahore Cities during the period **20th July to 22nd July 2020**. Wet spell is likely to continue during the next 48 hours. Prominent rainfall events reported by FFD, Lahore during the past 24 hours may be seen at **Annexure-II**

6. Pakistan Meteorological Department (PMD) is actively monitoring the prevailing weather system with regards to its impact over Pakistan 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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3. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.

4. Secretary, Ministry of Water Resources, Islamabad.
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6. Secretary, Ministry of National Food Security and Research, Islamabad.
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8. Chairman, National Disaster Management Authority, Prime Minister's Office, 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.
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19. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
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21. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
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23. Chief Commissioner, Islamabad.
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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. 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 20-07-2020

**Discharges at Important River Sites
July 20, 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	174,000	152,000	650,000	Normal
▪ Kalabagh	950,000	215,000	207,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	217,000	210,000	650,000	Normal
▪ Taunsa [^]	1,000,000	215,000	191,000	650,000	Normal
▪ Guddu	1,200,000	177,000	139,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	129,000	71,000	700,000	Normal
▪ Kotri	875,000	57,000	16,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		34,000	200,000	Normal
▪ Nowshera			52,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			15,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		10,000	150,000	Normal
▪ Charsadda Road Bridge			8,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	36,000	26,000	225,000	Normal
▪ Rasul	850,000	13,000	5,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	67,000	35,000	400,000	Normal
▪ Khanki	1,100,000	33,000	25,000	400,000	Normal
▪ Qadirabad	900,000	30,000	8,000	400,000	Normal
▪ Trimmu	645,000	18,000	3,000	450,000	Normal
▪ Panjnad	700,000	25,000	9,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		8,000	150,000	Normal
▪ Shahdara	250,000		26,000	135,000	Normal
▪ Balloki	225,000	46,000	16,000	135,000	Normal
▪ Sidhnai	150,000	20,000	5,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	18,000	5,000	175,000	Normal
▪ Islam	300,000	8,000	6,000	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	1456.11	1493.04	1448.30	5.980	1.147	3.092
	Minimum Operating Level:	1392.00						
Chashma:	Maximum Conservation Level:	649.00	648.00	645.20	647.30	0.278	0.227	0.131
	Minimum Operating Level:	637.00						
Mangla:	Maximum Conservation Level:	1242.00	1226.70	1172.35	1129.65	<u>7.356</u>	<u>6.174</u>	<u>2.782</u>
	Minimum Operating Level:	1050.00						
Total Live Storage					13.614	7.548	6.005	

Skardu Temperature	Today 2020	Last year 2019
Maximum	27.3 ⁰ C	32.6 ⁰ C
Minimum	12.3 ⁰ C	20.0 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.	Hafizabad	92
2.	Shadiwal	72
3.	Mangla	70
4.	Kasur	57
5.	Lahore	(Township=31, Airport=21, Johar Town= 20, Jail Road=13, Punjab University=08 & Lukshmi=05)
6.	Murree	24
7.	Sialkot	(Cantt=13 & Airport=04)
8.	Sargodha (Airbase)	12
9.	Islamabad	(Saidpur=10, Golra=07 & Zeropoint=05)
10.	Mandi Bahauddin	09
11.	Jhelum	07
12.	Gujranwala & Phulra	05 each
B	Khyber Pakhtunkhwa	
1.	Balakot	30
2.	Haraman	15
C	Azad Jammu & Kashmir	
1.	Chakothei & Kotli	21 each
2.	Panjera	12
3.	Brarkot	10
4.	Rawalakot & Garhi Dopatta	09 each
5.	Hajira	07
6.	Chattar Kallas	06
7.	Palandri	05
D	Balochistan	
1.	Khuzdar	11

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