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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 27, 2020

All main rivers of Indus River System are presently flowing in "Normal Flow Condition". Discharges (inflows & outflows) of all main rivers at important control structures, levels and storage position of major reservoirs (Tarbela, Chashma & Mangla) and comparison of levels and storage with regards to corresponding period of last two years (2018 and 2019) may be seen at **Annexure-I**.


2. Today, water storage level in **Tarbela** reservoir is **1459.22 feet** (which is respectively **58.53 feet and 44.37 feet** below compared to its water storage level of 2019 and 2018). IRSA has already been advised for judicious releases of stored water in the Tarbela reservoir owing to very lean inflows from upstream mainly due to temperature fluctuations.

3. **Mangla** reservoir today is at elevation of **1228.80 feet (13.20 feet below its MCL: 1242.00 feet)**. Mangla Dam Management Authority is thus being regularly advised for exercising utmost care and vigilance in reservoir operation in coordination with Flood Mitigation Committee (FMC) in line with approved SOPs and based on Dam Safety Guidelines.

4. FFD, Lahore, has reported incursion of moist currents from the Arabian Sea into upper parts of Pakistan upto 4000 feet with Seasonal Low prevailing over Northern Balochistan. Yesterday's Westerly Wave trough over Northern parts of Pakistan has moved away Eastwards, with a fresh trough of Westerly Wave presently prevailing over Northern parts of Afghanistan. Cyclonic Circulation (extension of monsoon low) yesterday reported over East Central Arabian Sea has now become insignificant for Pakistan. (Ref: Bulletin No.A-043/20 of FFD, Lahore).

5. For the ensuing 24 hour, FFD, Lahore, predicts scattered thunderstorm/ rain of **Light to Moderate Intensity** over Hazara Division (Khyber Pakhtunkhwa) and upper catchments of major rivers except River Indus. During the same period isolated thunderstorm/ rain may also occur over Rawalpindi, Gujranwala, Lahore & D.G. Khan Divisions (Punjab), Malakand & D.I. Khan Divisions (Khyber Pakhtunkhwa), Southern Sindh, coastal areas of Balochistan and over upper catchment of River Indus. Fresh wet spell of **Moderate Intensity** with few **Heavy Falls** is expected from **30th July 2020**. Some prominent rainfall events of last 24 hours reported by the FFD, Lahore, are depicted in **Annexure-II**.

6. Pakistan Meteorological Department (PMD) is closely watching and actively monitoring the prevailing weather system including its impact on urban and rural 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:

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.25567890-, 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, Pakistan Railways, Lahore.
9. Member (Infrastructure), Planning Commission, Islamabad.
10. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chairman, National Highway Authority, Islamabad.
13. Chairman, Indus River System Authority, Islamabad.
14. Member (Water), WAPDA, WAPDA House, Lahore.
15. Director General, Pakistan Meteorological Department, Islamabad.
16. Chief Secretary, Government of the Punjab, Lahore.
17. Chief Secretary, Government of Sindh, Karachi.
18. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
19. Chief Secretary, Government of Balochistan, Quetta.
20. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
21. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
22. Chief Commissioner, Islamabad.
23. Secretary, Irrigation Department, Government of the Punjab, Lahore.
24. Secretary, Irrigation Department, Government of Sindh, Karachi.
25. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
26. Secretary, Irrigation Department, Government of Balochistan, Quetta.
27. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
28. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
29. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
30. Project Director/Chief Engineer, Mangla Dam Organization (MDO), WAPDA, Mangla.
31. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
32. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
33. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
34. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
35. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
36. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
37. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
38. Principal Information Officer, Press Information Department, Islamabad.
39. Director (News), Associated Press of Pakistan, Islamabad.
40. Director (News), Pakistan Television, Islamabad.
41. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
U.O. No.FC-I (31)/2020, dated 27-07-2020

**Discharges at Important River Sites
July 27, 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	152,000	146,000	650,000	Normal
▪ Kalabagh	950,000	205,000	197,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	206,000	199,000	650,000	Normal
▪ Taunsa [^]	1,000,000	199,000	175,000	650,000	Normal
▪ Guddu	1,200,000	167,000	128,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	117,000	62,000	700,000	Normal
▪ Kotri	875,000	66,000	31,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		31,000	200,000	Normal
▪ Nowshera			47,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			14,000	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	30,000	35,000	225,000	Normal
▪ Rasul	850,000	24,000	16,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	60,000	30,000	400,000	Normal
▪ Khanki	1,100,000	30,000	23,000	400,000	Normal
▪ Qadirabad	900,000	35,000	13,000	400,000	Normal
▪ Trimmu	645,000	20,000	6,000	450,000	Normal
▪ Panjnad	700,000	32,000	17,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		24,000	150,000	Normal
▪ Shahdara	250,000		25,000	135,000	Normal
▪ Balloki	225,000	38,000	8,000	135,000	Normal
▪ Sidhnai	150,000	23,000	13,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	18,000	5,000	175,000	Normal
▪ Islam	300,000	9,000	6,000	175,000	Normal

Live Storage (MAF) ⁺

<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>
Tarbela: Maximum Conservation Level: 1550.00	1459.22	1517.75	1503.59	5.980	1.571	4.291
Minimum Operating Level: 1392.00						
Chashma: Maximum Conservation Level: 649.00	648.00	642.00	645.00	0.278	0.227	0.058
Minimum Operating Level: 637.00						
Mangla: Maximum Conservation Level: 1242.00	1228.80	1183.40	1144.00	<u>7.356</u>	<u>6.329</u>	<u>3.362</u>
Minimum Operating Level: 1050.00						
Total Live Storage				13.614	8.127	7.711

Skardu Temperature	Today 2020	Last year 2019
Maximum	32.6 °C	27.0 °C
Minimum	17.4 °C	18.3 °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	(Gulshan e Hadeed= 86, University Road=81, Sarjani Town= 73, North Karachi=62, Jinnah Terminal= 58, Saddar & Kemari= 51(each), Airport=50, Faisal Base=49, Nazimabad=28, Masroor Base & Landhi=23 (each))
2.	Mirpur Khas	15
3.	Badin	13
4.	Chhor & Thatta	12 each
5.	Hyderabad	11
B Punjab		
1.	Lahore	(Shahdara=24, Shahi Qilla=18 & Gulberg= 05)
2.	Murree	15
C Balochistan		
1.	Ziarat	19
2.	Kalat	09
D Azad Jammu and Kashmir		
1.	Garhi Dopatta	13
2.	Muzaffarabad (City)	06
E Khyber Pakhtunkhwa		
1.	Parachinar	06

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