



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
WEDNESDAY JULY 22, 2020

Presently all main rivers (Indus, Jhelum, Chenab, Ravi & Sutlej) are flowing normal right from respective catchments upto Kotri Barrage (the last control structure on Indus River). **Annexure-I** depicts the normal state of main rivers (inflows & out flows) alongwith Tarbela, Chashma and Mangla water levels (in feet) & storage position (in MAF) as of 0600 hour today.


2. This year on account of temperature fluctuations at Skardu (lower than last year), major difference in **Tarbela Dam** storage is being witnessed (**1.57 MAF** Vs **3.366 MAF** of last year) at the corresponding period depicting **1.796 MAF** storage deficit compared to last year. IRSA is ensuring judicious releases.

3. Water level in **Mangla reservoir** is appreciably higher compared to last year (**1227.85 feet** Vs **1175.40 feet**). River Jhelum at Mangla upstream experienced a peak inflow close to Medium Flood (**107,000 cusecs**) at 1200 hours yesterday. Mangla Dam Management, Flood Mitigation Committee, IRSA and FFD, Lahore to strictly ensure round-the-clock monitoring and utmost vigilance, considering the safety of dam as well as timely dissemination of early warning of any abnormal flow to the Flood Managers and to the local populations in the downstream areas.

4. As reported by FFD, Lahore, presently Arabian Sea's weak moist currents are penetrating into upper parts of Pakistan upto 3000 feet with Seasonal Low continues to prevail over Northern Balochistan. Trough of Westerly Wave earlier over Northern parts of the country has moved Eastwards, thus its impact on Pakistan is reduced.

5. For the ensuing 24 hours, isolated thunderstorm/ rain may occur over Punjab, Khyber Pakhtunkhwa, Eastern Balochistan, Gilgit Baltistan and upper catchments of all the major rivers, besides, mild flows in the Hill Torrents of D.G. Khan Division are expected (Ref: FFD, Lahore Bulletin No. A-038/20 dated 22nd July, 2020). Good rains have been reported by the FFD, Lahore, across the country especially in the River Jhelum catchments (**Annexure-II**).

6. Pakistan Meteorological Department (PMD), responsible for analyzing Met situation, is actively monitoring the present weather system and is keeping all concerned fully informed through its central Flood Forecasting Division based in Lahore.


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

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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 22-07-2020

**Discharges at Important River Sites
July 22, 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	180,000	137,000	650,000	Normal
▪ Kalabagh	950,000	211,000	203,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	210,000	203,000	650,000	Normal
▪ Taunsa [^]	1,000,000	219,000	196,000	650,000	Normal
▪ Guddu	1,200,000	186,000	151,000	700,000	Normal
▪ Sukkur ^{^^}	900,000	129,000	71,000	700,000	Normal
▪ Kotri	875,000	62,000	19,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		32,000	200,000	Normal
▪ Nowshera			50,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			16,000	150,000	Normal
▪ Munda Head Works ^{^^^}	150,000		12,000	150,000	Normal
▪ Charsadda Road Bridge			9,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	36,000	13,000	225,000	Normal
▪ Rasul	850,000	23,000	16,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	65,000	35,000	400,000	Normal
▪ Khanki	1,100,000	32,000	25,000	400,000	Normal
▪ Qadirabad	900,000	35,000	13,000	400,000	Normal
▪ Trimmu	645,000	23,000	8,000	450,000	Normal
▪ Panjnad	700,000	20,000	4,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		10,000	150,000	Normal
▪ Shahdara	250,000		23,000	135,000	Normal
▪ Balloki	225,000	49,000	27,000	135,000	Normal
▪ Sidhnai	150,000	24,000	14,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	18,000	9,000	175,000	Normal
▪ Islam	300,000	5,000	5,000	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	1459.20	1498.95	1461.88	5.980	1.570	3.366
Minimum Operating Level:	1392.00						
Chashma: Maximum Conservation Level:	649.00	648.00	645.80	648.20	0.278	0.227	0.147
Minimum Operating Level:	637.00						
Mangla: Maximum Conservation Level:	1242.00	1227.85	1175.40	1132.50	<u>7.356</u>	<u>6.259</u>	<u>2.938</u>
Minimum Operating Level:	1050.00						
Total Live Storage				13.614	8.056	6.451	

Skardu Temperature	Today 2020	Last year 2019
Maximum	20.4 °C	35.6 °C
Minimum	11.2 °C	20.0 °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.	Jhelum	88
2.	Bahawalpur (Airport)	54
3.	Mangla	44
4.	Khanpur	43
5.	Bahawalpur (City)	31
6.	DG Khan	(Airport=27, Fort Munro=20 & Mari=10)
7.	RY Khan	25
8.	Murree	20
9.	Sialkot Cantt & Kallar	19 each
10.	Islamabad	(Golra= 16 & Saidpur=15)
11.	Mianwali	14
12.	Phulra	10
13.	Bahawalnagar & Narowal	08 each
14.	Multan	07
15.	Sahiwal	06
B	Azad Jammu & Kashmir	
1.	Kotli	80
2.	Rawalakot	17
3.	Hajira & Bandi Abbaspur	15 each
4.	Panjera	07
5.	Chattar Kallas & Palandri	06 each
C	Balochistan	
1.	Barkhan	27
D	Khyber Pakhtunkhwa	
1.	Buner	23
2.	Bannu	13
3.	Saidu Sharif	12
4.	Kohat & Malam Jabba	10 each
5.	Oghi & Daggar	07 each
6.	Dir	06
7.	Shinkhari	05
E	Sindh	
1.	Mithi= 15	15
2.	Moin-jo-Daro	14
F	Gilgit-Baltistan	
1.	Hunza	08
2.	Astore	06

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