



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Advisor/
Chairman, Federal Flood Commission

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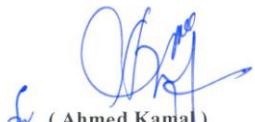
DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY JULY 20, 2021

All main rivers (**Indus, Jhelum, Chenab, Ravi and Sutlej**) are flowing normal. For river inflows/ outflows at important locations alongwith major reservoirs water levels & storage positions **Annexure-I** is referred. Owing to good rains in the upper catchments of rivers Indus, Jhelum & Chenab, reservoirs storages have much increased. As of today, Combined Live Storage of Tarbela, Chashma & Mangla reservoirs has risen to **4.697 MAF (34.75% of 13.516 MAF)** as compared to last week i.e. on **July 12, 2021** which was **3.080 MAF (22.78% of 13.516)**

2. Marked Seasonal Low presently lies over Northeastern Balochistan with its trough extending Northwards. Strong moist currents from Arabian Sea are penetrating into upper parts of the country upto 7000 feet. Yesterday's trough (lowest point) of strong Westerly Wave over Northern parts of the country today lies over Kashmir and adjoining areas.

3. For the ensuing 24 hours, FFD, Lahore has predicted scattered to fairly widespread thunderstorm/ rain with **Heavy Falls** at isolated places, **Very Heavy Falls** at one or two places of Punjab (**Rawalpindi, Sargodha, Gujranwala & Lahore Divisions**) and Khyber Pakhtunkhwa including upper catchments of all the main rivers. Scattered thunderstorm/ rain of **Moderate Intensity** with isolated **Heavy Falls** may also occur over **Faisalabad, Sahiwal, Multan, Bahawalpur & D.G. Khan Divisions** of Punjab Province during the same period. Prominent rainfall recorded during the past 24 hours may be seen at **Annexure-II**.

4. Round-the-Clock monitoring of prevailing weather system is being done by PMD with specific reference to its impact over Rural, Urban and Riverine areas of Pakistan. All concerned are being kept fully abreast of the situation by FFD, 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.
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4. Secretary, Ministry of Water Resources, Islamabad.
5. Secretary, Ministry of Climate Change, Islamabad.
6. Director General (Coordination), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
7. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad
8. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.
9. Chief Executive Officer, Pakistan Railways, Lahore
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11. Pakistan Commissioner for Indus Waters (PCIW), Islamabad
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20. Chief Secretary, Government of Balochistan, Quetta.
21. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
22. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
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. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
31. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
32. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
33. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
34. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
35. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
36. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
37. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
38. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
39. Principal Information Officer, Press Information Department, Islamabad.
40. Director (News), Associated Press of Pakistan, Islamabad.
41. Director (News), Pakistan Television, Islamabad.
42. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi
43. PS to CEA/CFFC Islamabad.

U.O. No. FC-I (31)/2021, dated 20-07-2021

Rivers and Reservoir Positions July 20, 2021 at 0600 Hours

A. River Flow Situation:

Structures	Designed Capacity	Last Year Flow		Today Actual Flow		Comparative Danger (VHF) Classification	Flood Classification* (Based on today's Outflow)
		Inflow	Out Flow	In Flow	Out Flow		
1	2	3	4	5	6	7	8
River Indus							
▪ Tarbela Reservoir	1,500,000	174,000	152,000	279,000	137,000	650,000	Normal
▪ Kalabagh	950,000	215,000	207,000	211,000	206,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	217,000	210,000	254,000	239,000	650,000	Normal
▪ Taunsa	1,000,000	215,000	191,000	193,000	164,000	650,000	Normal
▪ Guddu	1,200,000	177,000	139,000	138,000	95,000	700,000	Normal
▪ Sukkur	900,000	129,000	71,000	94,000	39,000	700,000	Normal
▪ Kotri	875,000	57,000	16,000	25,000	NIL	650,000	Normal
River Kabul							
▪ Warsak	540,000		34,000		38,000	200,000	Normal
▪ Nowshera			52,000		61,000	200,000	Normal
River Swat (Tributary of Kabul)							
▪ Chakdara Bridge			15,000		19,000	150,000	Normal
▪ Munda Head Works	150,000		10,000		16,000	150,000	Normal
▪ Charsadda Road Bridge			8,000		14,000	100,000	Normal
River Jhelum							
▪ Mangla Reservoir	1,060,000	36,000	26,000	74,000	12,000	225,000	Normal
▪ Rasul	850,000	13,000	5,000	8,000	NIL	225,000	Normal
River Chenab							
▪ Marala	1,100,000	67,000	35,000	96,000	62,000	400,000	Normal
▪ Khanki	1,100,000	33,000	25,000	52,000	45,000	400,000	Normal
▪ Qadirabad	900,000	30,000	8,000	53,000	33,000	400,000	Normal
▪ Trimmu	875,000	18,000	3,000	24,000	7,000	450,000	Normal
▪ Panjnad	865,000	25,000	9,000	21,000	6,000	450,000	Normal
River Ravi							
▪ Jassar	275,000		8,000		9,000	150,000	Normal
▪ Shahdara	250,000		26,000		25,000	135,000	Normal
▪ Balloki	380,000	46,000	16,000	35,000	5,000	135,000	Normal
▪ Sidhnai	150,000	20,000	5,000	19,000	3,000	90,000	Normal
River Sutlej							
▪ Suleimanki	325,000	18,000	5,000	15,000	3,000	175,000	Normal
▪ Islam	300,000	8,000	6,000	1,000	NIL	175,000	Normal

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (FL-AMSL)	Minimum Operating Level (FL-AMSL)	Water Level (Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2019	2020	2021	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1392.00	1493.04	1456.11	1470.21	5.882	1.147	1.952	33.18 %
Chashma	649.00	638.15	645.20	648.00	642.70	0.278	0.227	0.072	25.89 %
Mangla	1242.00	1050.00	1172.35	1226.70	1170.20	7.356	6.174	2.673	36.33 %
Total Live Storage						13.516	7.548	4.697	34.75 %

C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	27.3 °C	30.4 °C
Minimum	12.3 °C	16.0 °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"

* FFC, Flood Communication Cell Duty Officer No. 051-9244616

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/ Observatory	Rainfall (mm)
A	Punjab	
1.	Mianwali	140
2.	Mandibahauddin	96
3.	Islamabad	Saidpur = 88, New Airport & Zero Point = 48 each, Golra = 42, Chaklala Airbase = 29, Shamsabad = 28, Bokra = 21
4.	Noorpur Thal	81
5.	Gujranwala	76
6.	Lahore	Township = 68, Johar Town & Shahi Qilla = 56 each, Shahdara = 54, Punjab University = 50, Luckshami = 48, Samanabad = 43, Misri Shah = 40, Gulshan-e-Ravi = 38, Mughal Pura = 29, Jail Road and Iqbal Town = 27 each, Gulberg = 23, Airport = 16, Taj Pura = 14 and Upper Mall = 10, Sharqpur = 53, Narowal = 52, Faisalabad = 24, Ravi Syphon = 14
7.	Sialkot	Cantt = 60 & Airport = 50
8.	Gujrat	56
9.	Dolat Nagar	50
10.	Sargodha	Airbase = 44 & City = 28
11.	Jhelum	37
12.	Joharabad	33
13.	Murree	29
14.	Hafizabad	28
15.	Mangla	25
16.	Bhakkar	22
17.	Chakwal	21
18.	Attock	19
19.	Attock	19
20.	Marala	13
21.	Rohtas	13
22.	Kallar	11
23.	Aik Nullah (Ura)	11
B	Khyber Pakhtunkhwa	
24.	Malam Jabba	66
25.	Kakul	64
26.	Saidu Sharif	61
27.	Kamra	58
28.	Risalpur	49
29.	Parachinar	45
30.	Dir	41
31.	Shinkiari	40

Sr. No.	City/ Observatory	Rainfall (mm)
32.	Phulra	38
33.	Daggar	38
34.	Peshawar	36
35.	Cherat	35
36.	Oghi	32
37.	Buner	27
38.	Besham	26
39.	Kalam	18
40.	Kohat (Airbase)	16
41.	Bannu	15
42.	Takht Bai & Mardan	14 each
43.	Lower Dir	13
44.	Babusar	11
C	Balochistan	
45.	Zhob	12
D	AJ&K	
46.	Palandri	122
47.	Kotli	84
48.	Tandali	72
49.	Panjera	64
50.	Bandi Abbas Pur	56
51.	Brarkot	52
52.	Domel	50
53.	Chattar Kallas	40
54.	Garhi Dopatta	39
55.	Chakothi	36
56.	Rawalakot	35
57.	Hajira	33
58.	Barnala	31
59.	Muzaffarabad	22
60.	Nauseri	17

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