



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**  
**FRIDAY JULY 30, 2021**


Enhanced discharges upstream Tarbela (at Partab Bridge) owing to both rains as well as snowmelt has increased inflows in River Indus which is presently flowing in **Low Flood** in "**Tarbela-Kalabagh-Chashma Reach**". Other main rivers (**Jhelum, Chenab, Ravi and Sutlej**) are flowing with Normal discharges. **Annexure-I (Section-A, Column 3 Vs 5)** highlights good inflows in the western rivers (Indus, Jhelum and Chenab) owing to persistent high temperature in Gilgit-Baltistan region besides healthier rains in upper catchments of rivers Jhelum and Chenab. **Annexure-II** is referred for Skardu Temperature and flow comparison of Indus River at Partab Bridge during last 6 days which indicates much higher inflows this year i.e. **424,000 cusecs Vs 183,000 cusecs** of last year. Combined Live Storage of country's three major reservoirs as of today is **7.464 MAF** (i.e. **55%** of the total value of **13.516 MAF**).

2. Yesterday's **Well Marked Monsoon Low** over Coastal Bangladesh has moved North-Westwards with present location over Eastern parts of Jharkhand (India). Moderate moist current from Bay of Bengal is penetrating into upper parts of the country up to 5000 feet. Existing Westerly Wave trough has moved Eastwards with a fresh trough of Westerly Wave presently prevailing over Northern parts of Afghanistan. Also, a weak Seasonal Low currently exists over Northern Balochistan.

3. For the ensuing 24 hours, FFD, Lahore has predicted scattered thunderstorm/rain of **Moderate Intensity** over **Rawalpindi, Gujranwala, Sargodha & Bahawalpur Divisions of Punjab** and **Peshawar, Kohat, Bannu & D.I. Khan Divisions of Khyber Pakhtunkhwa** including upper catchments of all main rivers. In addition to above, for the same period, **Isolated** thunderstorm/ rain may also occur over **Lahore, Faisalabad, Sahiwal, Multan & D.G. Khan Divisions of Punjab Province**. Rainfall activity during the past 24 hours has receded. Prominent rainfall events reported during this period may be seen at **Annexure-III**.

4. All concerned Authorities are advised to remain **vigilant** on **24 hours basis**, closely watch the weather, rain and flood situation and accordingly ensure fool proof precautionary measures to avoid any loss of precious human lives and damage to important installations including public & private properties.

5. Pakistan Meteorological Department (PMD) is monitoring the present weather system on Round-the-Clock basis and keeping all the concerned informed through FFD, Lahore.

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

**Distribution:**

1. Minister for Water Resources, Islamabad.
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3. Minister for Information & Broadcasting, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Ministry of Climate Change, Islamabad.
7. Director General (Coordination), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad
8. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad

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29. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
32. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
33. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
34. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
35. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
36. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
37. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
38. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
39. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
40. Principal Information Officer, Press Information Department, Islamabad.
41. Director (News), Associated Press of Pakistan, Islamabad.
42. Director (News), Pakistan Television, Islamabad.
43. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi
44. PS to CEA/ CFFC Islamabad.

U.O. No. FC-I (31)/2021, dated 30-07-2021

## Rivers and Reservoir Positions July 30, 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
<b>River Indus</b>							
▪ Tarbela Reservoir	1,500,000	178,000	105,000	340,000	252,000	650,000	Low Flood ↑
▪ Kalabagh	950,000	197,000	189,000	266,000	260,000	650,000	Low Flood ↑
▪ Chashma Reservoir	950,000	197,000	190,000	308,000	299,000	650,000	Low Flood ↑
▪ Taunsa	1,000,000	189,000	163,000	186,000	165,000	650,000	Normal
▪ Guddu	1,200,000	158,000	120,000	153,000	111,000	700,000	Normal
▪ Sukkur	900,000	110,000	53,000	101,000	47,000	700,000	Normal
▪ Kotri	875,000	77,000	39,000	56,000	18,000	650,000	Normal
<b>River Kabul</b>							
▪ Warsak	540,000		31,000		42,000	200,000	Normal
▪ Nowshera			50,000		73,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>							
▪ Chakdara Bridge			12,000		21,000	150,000	Normal
▪ Munda Head Works	150,000		9,000		16,000	150,000	Normal
▪ Charsadda Road Bridge			8,000		11,000	100,000	Normal
<b>River Jhelum</b>							
▪ Mangla Reservoir	1,060,000	27,000	15,000	50,000	8,000	225,000	Normal
▪ Rasul	850,000	19,000	12,000	10,000	NIL	225,000	Normal
<b>River Chenab</b>							
▪ Marala	1,100,000	73,000	40,000	98,000	76,000	400,000	Normal
▪ Khanki	1,100,000	34,000	27,000	102,000	96,000	400,000	Normal
▪ Qadirabad	900,000	35,000	13,000	114,000	94,000	400,000	Normal
▪ Trimmu	875,000	23,000	8,000	69,000	53,000	450,000	Normal
▪ Panjnad	865,000	33,000	17,000	31,000	16,000	450,000	Normal
<b>River Ravi</b>							
▪ Jassar	275,000		13,000		18,000	150,000	Normal
▪ Shahdara	250,000		25,000		31,000	135,000	Normal
▪ Balloki	380,000	44,000	13,000	53,000	24,000	135,000	Normal
▪ Sidhnai	150,000	18,000	5,000	24,000	8,000	90,000	Normal
<b>River Sutlej</b>							
▪ Suleimanki	325,000	14,000	NIL	15,000	2,000	175,000	Normal
▪ Islam	332,000	3,000	1,000	2,000	1,000	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	1528.00	1465.35	1512.36	5.882	1.824	3.852	65.48 %
Chashma	649.00	638.15	640.00	648.00	639.50	0.278	0.227	0.017	6.11 %
Mangla	1242.00	1050.00	1187.80	1229.30	1187.60	7.356	6.368	3.595	49.00 %
<b>Total Live Storage</b>						<b>13.516</b>	<b>8.419</b>	<b>7.464</b>	<b>55.22 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	34.8 °C	35.4 °C
Minimum	16.7 °C	20.4 °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"

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**Comparison of Last 6 days Temperature of Skardu and Discharges of Indus River at Partab Bridge (GB) at 0600 hours**

S.No	Date	2020			2021		
		Skardu Min. Temp. (°C)	Skardu Max. Temp. (°C)	Discharge of Indus river at Partab Bridge (Cusecs)	Skardu Min. Temp. (°C)	Skardu Max. Temp. (°C)	Discharge of Indus river at Partab Bridge (Cusecs)
1	2	3	4	5	6	7	8
1	25-Jul	12.3	32.3	129,000	17.7	34.6	156,600
2	26-Jul	17.2	34.2	129,000	18.4	37.6	179,700
3	27-Jul	17.4	32.7	136,000	19	38.2	230,100
4	28-Jul	14.2	28.8	147,000	20.3	38.6	326,200
5	29-Jul	17.3	33.4	166,000	19.5	38.1	380,900
<b>6</b>	<b>30-Jul</b>	<b>16.7</b>	<b>34.8</b>	<b>183,000</b>	<b>20.4</b>	<b>35.4</b>	<b>424,000</b>

Source: PMD for Temperature and WAPDA for Discharges

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

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	T.T. Singh	36
2.	Kamra	14
3.	Shorkot	13
4.	Attock	09
5.	Jhang	06
6.	Bahawalnagar	05
<b>B</b>	<b>Khyber Pakhtunkhwa</b>	
7.	Malam Jabba	64
8.	Risalpur	34
9.	Balakot	33
10.	Shinkiari	32
11.	Peshawar	21
12.	Kalam	10
13.	Lower Dir	07
<b>C</b>	<b>AJ &amp; K</b>	
14.	Brarkot	71
15.	Muzaffarabad & Chakothei	16 each
16.	Domel	10
<b>D</b>	<b>Gilgit-Baltistan</b>	
17.	Chilas	07

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