



**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  
THURSDAY JULY 29, 2021**

Appreciable rains in the upper catchment areas of River Chenab has resulted in **Medium Flood** in its "Marala-Khanki Reach" and **Low Flood** at Qadirabad Barrage (Upstream Trimmu). Remaining main rivers (Indus, Jhelum, Ravi and Sutlej) are flowing with "Normal Discharges". For main rivers inflows/ outflows at important control structures, reservoirs storage position and Skardu temperature, **Annexure-I** may be seen. Gradual increase in temperature at Skardu since the last five days has resulted in enhanced inflows upstream Tarbela, thus resulting into appreciable increase in **Tarbela** reservoir storage which at present stands at **61%** filled. Comparison of last 5 days Skardu Temperature alongwith discharges at Partab Bridge (380,900 Cusecs at 0600 hours today) is given at **Annexure-II**. Combined Live Storage of country's three major reservoirs as of today is **7.146 MAF** (i.e. **53%** of the total value of **13.516 MAF**).

2. Yesterday's Monsoon Low over North Bay of Bengal (India) has become a **Well Marked Monsoon Low** with its present location over Coastal Bangladesh. Light moist currents (from Bay of Bengal & Arabian Sea) are penetrating into upper parts of Pakistan up to 5000 feet. Further to this, Westerly Wave trough earlier over Northern parts of Pakistan is now prevailing over Kashmir and adjoining areas with Seasonal Low over Northeastern Balochistan.

3. Scattered thunderstorm/rain of **Moderate Intensity** with isolated **Heavy Falls** is expected during the ensuing 24 hours over Rawalpindi, Gujranwala, Sargodha, Lahore, Faisalabad, Sahiwal, Multan, Bahawalpur & D.G. Khan Divisions (Punjab) and Peshawar, Kohat, Bannu & D.I. Khan Divisions (Khyber Pakhtunkhwa), besides over the upper catchments of all main rivers. **For the next 48 hours time span**, FFD, Lahore has predicted scattered **Light to Moderate Intensity** rain over Punjab and Khyber Pakhtunkhwa, including the upper catchments of all the main rivers. During the **past 24 hours appreciable rains** have been experienced in Punjab, Khyber Pakhtunkhwa and AJ&K (**Annexure-III**).

**Khyber Pakhtunkhwa and Gilgit-Baltistan - GLOF Alert by PMD:**

4. The existing weather system is likely to prevail for next 1-2 weeks in Gilgit-Baltistan and Chitral (KP) after persistent **High Temperatures** having potential to cause Glacial Lake Outburst Flood (GLOF) in the vulnerable areas of Gilgit-Baltistan and Chitral. Local authorities in Khyber Pakhtunkhwa and Gilgit-Baltistan are strongly advised to remain **Alert** and exercise all precautionary measures.

5. All concerned Authorities are strictly advised to remain **vigilant on 24 hours basis**, closely monitor 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.

6. 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.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Information & Broadcasting, Islamabad.
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27. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
28. Secretary, Irrigation Department, Government of Balochistan, Quetta.
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 29-07-2021

## Rivers and Reservoir Positions July 29, 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	177,000	129,000	324,000	145,000	650,000	Normal
▪ Kalabagh	950,000	182,000	173,000	223,000	217,000	650,000	Normal
▪ Chashma Reservoir	950,000	204,000	198,000	242,000	232,000	650,000	Normal
▪ Taunsa	1,000,000	192,000	167,000	172,000	152,000	650,000	Normal
▪ Guddu	1,200,000	158,000	120,000	155,000	113,000	700,000	Normal
▪ Sukkur	900,000	110,000	53,000	108,000	52,000	700,000	Normal
▪ Kotri	875,000	74,000	39,000	49,000	10,000	650,000	Normal
<b>River Kabul</b>							
▪ Warsak	540,000		35,000		35,000	200,000	Normal
▪ Nowshera			47,000		71,000	200,000	Normal
<b>River Swat (Tributary of Kabul)</b>							
▪ Chakdara Bridge			13,000		19,000	150,000	Normal
▪ Munda Head Works	150,000		10,000		19,000	150,000	Normal
▪ Charsadda Road Bridge			8,000		15,000	100,000	Normal
<b>River Jhelum</b>							
▪ Mangla Reservoir	1,060,000	54,000	27,000	55,000	9,000	225,000	Normal
▪ Rasul	850,000	20,000	12,000	10,000	NIL	225,000	Normal
<b>River Chenab</b>							
▪ Marala	1,100,000	67,000	35,000	194,000	171,000	400,000	Medium Flood ↑
▪ Khanki	1,100,000	27,000	19,000	164,000	158,000	400,000	Medium Flood ↑
▪ Qadirabad	900,000	29,000	7,000	165,000	145,000	400,000	Low Flood ↑
▪ Trimmu	875,000	14,000	NIL	45,000	29,000	450,000	Normal
▪ Panjnad	865,000	32,000	17,000	39,000	24,000	450,000	Normal
<b>River Ravi</b>							
▪ Jassar	275,000		8,000		15,000	150,000	Normal
▪ Shahdara	250,000		23,000		32,000	135,000	Normal
▪ Balloki	380,000	43,000	13,000	46,000	18,000	135,000	Normal
▪ Sidhnai	150,000	15,000	2,000	25,000	8,000	90,000	Normal
<b>River Sutlej</b>							
▪ Suleimanki	325,000	16,000	3,000	15,000	2,000	175,000	Normal
▪ Islam	332,000	7,000	5,000	2,000	1,000	175,000	Normal

### B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Ft-AMSL)	Minimum Operating Level (Ft-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	1525.75	1462.58	1507.36	5.882	1.709	3.608	61.33 %
Chashma	649.00	638.15	640.00	648.80	640.00	0.278	0.268	0.024	8.63 %
Mangla	1242.00	1050.00	1186.40	1229.10	1186.15	7.356	6.351	3.514	48.00 %
<b>Total Live Storage</b>						<b>13.516</b>	<b>8.328</b>	<b>7.146</b>	<b>53.00 %</b>

### C. Skardu Temperature:

Skardu Temperature	Last year 2020	Today 2021
Maximum	33.4 °C	38.1 °C
Minimum	17.3 °C	19.5 °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 5 days Temperature of Skardu and Discharges of Indus River  
 at Partab Bridge (GB) at 0600 hours**

S.No	2020				2021		
	Date	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

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.	Ganda Singh Wala	71
2.	Kasur	68
3.	Gujranwala	51
4.	Daulatnagar	49
5.	Narowal	48
6.	Sialkot	46
7.	Ravi Syphon	28
8.	Gujrat	24
9.	Lahore	20
10.	Mianwali	19
11.	Layyah	18
12.	Murree & Kot Addu	13 each
13.	Islamabad, Noorpur Thal & DG Khan	11 each
<b>B</b>	<b>Khyber Pakhtunkhwa</b>	
14.	Bannu	96
15.	Takht Bai	85
16.	Mardan	60
17.	Buner	57
18.	Shinkiari	54
19.	Besham	45
20.	Tarbela	38
21.	Lower Dir	30
22.	Phulra	26
23.	Malam Jabba	23
24.	Daggar	16
25.	Kohat	15
26.	Oghi	14
27.	Saidu Sharif	13
<b>C</b>	<b>AJ &amp; K</b>	
28.	Domel	86
29.	Joharabad	82
30.	Muzzafarabad	66
31.	Palandri	18
<b>D</b>	<b>Gilgit-Baltistan</b>	
32.	Chilas	14

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