



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

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**FFC's  
DAILY WEATHER & FLOOD SITUATION REPORT  
MONDAY SEPTEMBER 12, 2022**

**Rivers Hydrological Situation:**

**River Indus** continues to flow in “**High Flood**” at **Kotri**. It is discharging **Normal Flows** at rest of its control structures i.e. **Tarbela, Kalabagh, Chashma, Taunsa, Guddu & Sukkur** whereas all other main rivers of Indus River System (**Jhelum, Chenab, Ravi & Sutlej**) are also flowing in “**Normal Flow Conditions**”. **Annexure-I** depicts main rivers inflows/outflows at important control structures at 0600 hours today.

**Reservoirs Storage Position:**

2. **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level** of **1550.00 feet** since **August 28, 2022**. At present, water level in **Mangla Dam** is **1192.30 feet** against its **MCL: 1242 feet (47.44 % storage still left)**. **Chashma Reservoir** is also being maintained at **648.60 feet (against MCL: 649.00 feet)** since **2<sup>nd</sup> September 2022**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.951 MAF (i.e. 73.93 % of 13.461 MAF)**. WAPDA Authorities and field formations of Sindh Irrigation Department are continuing with their strict vigilance in the reservoir/ barrage operations for continued effective river flood management.

**Prevalent Meteorological Situation (Source: FFD, Lahore):**

3. Trough of **Westerly Wave** earlier over Northeastern Afghanistan today lies over Northern parts of Pakistan while **Weak Seasonal Low** continues to prevail over Northwestern Balochistan. At present, **Weak Moist currents** from Bay of Bengal are penetrating into upper parts of Pakistan upto 4000 feet.

**Next 24 hours Weather & Rainfall Forecast:**

4. For the ensuing 24 hours, FFD, Lahore, has predicated **scattered thunderstorm/rain of Moderate Intensity** over **Islamabad, Punjab (Rawalpindi, Sargodha & Gujranwala Divisions), Khyber Pakhtunkhwa (Peshawar, Kohat, Bannu & D.I. Khan Divisions)** and **Southeastern Sindh** including upper catchments of all Major Rivers of Indus River System.

5. Further to above, during the same period, **isolated thunderstorm/rain of Light to Moderate Intensity** may also occur over **Lahore, Faisalabad, Sahiwal, Multan, D.G. Khan & Bahawalpur Divisions of Punjab** and **Northeastern Balochistan**. Significant rainfall events for the past 24 hours as reported by FFD, Lahore may be seen at **Annexure-II**.

**Weather Outlook (13<sup>th</sup> to 19<sup>th</sup> September 2022):**

6. According to FFD, Lahore’s “**Weekly Significant Weather Outlook for Rivers Catchments**”, present **Wet Spell** of **Light to Moderate Intensity** is likely to continue over upper catchments of all the Major Rivers of Indus River System upto **14<sup>th</sup> September 2022**.

**Continued Precautionary Measures By Concerned Organizations:**

7. All concerned organizations including field formations of **Irrigation Department Sindh** are continuing with their unhalted watch and patrolling of flood embankments especially those which are sustaining high water pressure. Prompt flood fighting as and when needed to protect flood protection

infrastructures is also being exercised. Further they are advised to remain on “High Alert”, take all necessary precautionary measures as per their respective flood fighting and Contingency Plans.

8. **Managers of major reservoirs/barrages, in particular of Kotri Barrage are advised to continue with present river Indus flood discharge management for effective flood routing.**

9. O/o Pakistan Commissioner for Indus Water (PCIW) is to ensure availability of more latest **Flood/ Base Flow Data on Indian Structures/ Reservoirs on Rivers Sutlej, Beas and Ravi** as these structures are approaching close to their Maximum Conservation Levels (MCLs) as the monsoon season is still ongoing.

10. All concerned organizations including **PDMAs/DDMAs** are also advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

11. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country and is keeping all concerned fully informed through FFD, Lahore.



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

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43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

**U.O. No.FC-I (31)/2022, Dated 12-09-2022**

**Copy for information to:**

PS to CEA/ CFFC, Islamabad

## Rivers and Reservoir Positions September 12, 2022 at 0600 Hours

### A. River Flow Situation:

(Discharge in Cusecs)

Structures	Designed Capacity	Historic Peak Floods experienced to-date*		Last Year Flow		Today Actual Flow with Flood Classification			Comparative Danger (VHF) Classification
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	149,000	109,000	165,000	153,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	158,000	151,000	195,000	187,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	172,000	153,000	218,000	199,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	159,000	140,000	187,000	170,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	132,000	101,000	169,000	162,000	Normal	700,000
• Sukkur	900,000	1,161,000	16-8-1976	92,000	35,000	168,000	166,000	Normal	700,000
• Kotri	875,000	981,000	14-8-1956	29,000	4,000	608,000	582,000	High Flood (F)	650,000
<b>River Kabul</b>									
• Warsak	540,000				21,000		21,000	Normal	200,000
• Nowshera		450,000	29-07-2010		23,000		40,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		18,000		9,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		8,000		10,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		12,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	16,000	20,000	28,000	12,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	33,000	16,000	12,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	63,000	34,000	53,000	22,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	20,000	13,000	25,000	18,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	33,000	11,000	31,000	11,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	35,000	18,000	23,000	8,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	13,000	NIL	30,000	16,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		8,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		15,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	56,000	30,000	34,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	14,000	NIL	19,000	1,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	17,000	5,000	13,000	NIL	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	1,000	NIL	Normal	175,000

### 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)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	1550.00	1398.00	1550.00	1531.87	1550.00	5.827	4.865	5.827	100 %
Chashma	649.00	638.15	648.90	647.20	648.60	0.278	0.194	0.258	92.81 %
Mangla	1242.00	1050.00	1242.00	1191.80	1192.30	7.356	3.836	3.866	52.56 %
Total Live Storage						13.461	8.895	9.951	73.93 %

### C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference ( + / - )
Maximum	24.4 °C	26.4 °C	+ 2.0 °C
Minimum	14.6 °C	15.0 °C	+ 0.4 °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 freeboards

#### "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/ Historic Peak Floods: (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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**DAILY WEATHER AND FLOOD SITUATION REPORT**  
**MONDAY SEPTEMBER 12, 2022**  
**Significant Rainfall Events during the Past 24 Hours**

Sr. No.	City/Observatory	Rainfall (mm)
<b>A</b>	<b>Punjab</b>	
1.	Jhelum	49
2.	Mangla	44
3.	Kallar	43
4.	Sahiwal	42
5.	Islamabad	35
6.	Chakwal & Murree	18 each
7.	Kasur	17
8.	Haraman	16
9.	Sialkot, Gujranwala, Gujrat & Hafizabad	15 each
10.	Daulatnagar	14
11.	Sargodha	13
12.	Mandibahauddin	12
13.	Kamra	11
14.	Multan & Lahore	09 each
15.	Kotnaina	08
16.	Joharabad & Rohtas	07 each
17.	Mianwali & Ravi Syphon	05 each
<b>B</b>	<b>Sindh</b>	
18.	Mirpur Khas	23
19.	Chhor	22
20.	Badin	05
<b>C</b>	<b>Khyber Pakhtunkhwa</b>	
21.	Phulra & Daggar	27 each
22.	Shinkari	24
23.	Kakul & Tirah-Khyber	21 each
24.	Oghi	17
25.	Besham	13
26.	Balakot	10
27.	Parachinar & Risalpur	05 each
<b>D</b>	<b>Balochistan</b>	
28.	Barkhan	12
<b>E</b>	<b>Gilgit-Baltistan</b>	
29.	Astore	08
30.	Bunji	07
31.	Bagrote	06
<b>F</b>	<b>AJ&amp;K</b>	
32.	Palandri	65
33.	Muzaffarabad	33
34.	Kotli	29
35.	Chattar Kallas	26
36.	Domel	20
37.	Garhi Dopatta	19
38.	Rawalakot	17
39.	Bandi Abbaspur	15
40.	Hajira	11
41.	Dhulli	09
Source: FFD, Lahore (Phone No. 042 99200139)		