

**GOVERNMENT OF PAKISTAN  
PAKISTAN METEOROLOGICAL DEPARTMENT  
FLOOD FORECASTING DIVISION  
46-JAIL ROAD LAHORE-54000**

**BULLETIN No. A-078/24**

**Dated: 31<sup>st</sup> August, 2024  
Time: 11:20 hours (PST)**

1. President Secretariat, Islamabad.
2. PM House, Islamabad.
3. Federal Minister for Water Resources, Islamabad.
4. Governor (All Provinces).
5. Chairman NDMA, Islamabad.
6. Chief Minister (All Provinces).
7. PM Secretariat, Islamabad.
8. Secretary, Aviation Division, Islamabad.
9. Secretary, Ministry for Water Resources, Islamabad.
10. Secretary, Ministry of Information, Islamabad.
11. Secretary, Climate change, Islamabad.
12. Chairman NHA, Islamabad.
13. Chief Secretary (All Provinces).
14. PDMA'S (D.G's All Provinces & AJK).
15. Chairman, Federal Flood Commission, Islamabad.
16. Chairman, Indus River System Authority, Islamabad.
17. Chairman, PCRWR, Islamabad.
18. The Secretary General, Red Crescent, Islamabad.
19. Secretary, Irrigation Department, (All Provinces).
20. D.G. Engineers, Eng. Directorate GHQ, Rawalpindi.
21. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
22. Chief Engineer, Mangla/Tarbela/Chashma.
23. Chief Engineer, Irrigation (All Provinces).
24. Chief Engineer, (All Barrages).
25. Chief Engineer, C.D.O. (Muzaffarabad).
26. All other concerned.

**SUBJECT: -RIVERS SITUATION AND QUALITATIVE FLOOD FORECAST:**

**I: HYDROLOGICAL SITUATION at 0600 PST:**

River Indus at Kotri is at **medium** flood level, while other major rivers are flowing in normal state.

From September 2nd to 3rd, Medium to High level flows are expected in the River Jhelum upstream of Mangla, while Low to Medium flows are anticipated in the River Chenab and in the nullahs within the catchments of the Rivers Ravi and Chenab. Flows may also increase in the River Indus at Tarbela.

**Warning: (For 24 Hours):**

**FLASH FLOODING is expected in the areas along Kirthar ranges (Jacobabad, Qambar Shahdadkot, Dadu and Jamshoro districts) and Sulaiman ranges (DG Khan and Rajanpur districts) including nullahs in Balochistan (Zhob, Loralai, Sibbi, Nasirabad and Kalat divisions). Urban flooding is expected in Metropolitan cities of Sindh.**

**II: METEOROLOGICAL FEATURES:**

- a) **Cyclonic Storm** (CS) "ASNA" (Pronounced as As-Na) over northeast Arabian Sea off the Sindh coast has moved further westward and today lies over approx. 220 km south-southeast of Ormara.
- b) Yesterday's trough of westerly wave over northern parts of the country has moved away north-eastwards.
- c) **Strong moist** currents from the Arabian Sea are penetrating the southern Sindh and Balochistan up to 10,000 feet.
- d) Yesterday's monsoon low-pressure area over southeast Odisha has remained stationary. However, it has intensified into a **well-marked** low.
- e) A fresh trough of westerly wave lies over northeast Iran and adjoining areas.
- f) Weak Seasonal Low lies over northwest Balochistan.

**III: WEATHER FORECAST FOR 24-HOURS:**

Isolated thunderstorm rain of moderate intensity is expected over the upper catchments of all the major rivers.

**Warning:** Widespread thunderstorm rain of **HEAVY** to **VERY HEAVY** intensity with isolated **EXTREMELY HEAVY** falls may occur over Kalat and Makran divisions. Scattered to Widespread thunderstorm rain of **HEAVY** intensity with isolated **VERY HEAVY** falls is expected over Karachi, Hyderabad, DG Khan, Zhob, Sibbi, Nasirabad, Loralai, and Rakshan divisions.

**IV: WEATHER Outlook:**

A fresh spell of moderate to **Heavy rainfall**, with isolated **Very Heavy showers**, is expected over the upper catchments of all the major rivers along with Islamabad, Khyber Pakhtunkhwa and Punjab from 2nd to 3rd September.

**V: RIVERS CATCHMENTS RAINFALL RECORDED >01 (MM) DURING LAST 24-HRS (UPTO 0800 PST):**

<b>Indus:</b>	Phulra=50, Hunza=40, Islamabad [Saidpur=39, Zeropoint=38, Chaklala (Airbase)=26, Chaklala (Katcheri) & Golra=25(each), Shamsabad=24, Bokra=13, New Airport=05], Daggar=32, Besham=28, Dadu=24, Kakul, Kalam & Sukkur=23(each), Rohri=22, Khanpur=20, Moin-Jo-Daro=19, Cherat & Larkana=18(each), Khairpur=17, Shinkhari, Murree & Risalpur=14(each), Saidu Sharif & Gupis=13(each), Bhandu Wala=12, Parachinar=11, Attock=10, Oghi & Sakrand=09, Pattan=08, Dir & Shaheed Benazirabad=07(each), Hyderabad (City=06 & Airport=03), Khawagoobo Bridge, Chhor & Takht Bai=05(each), Mardan=04, Peshawar (Airport=03 & Bacha Khan Airport=02), Tando Jam=03, Thatta, Rahim Yar Khan, Badin, Mirkhani, Padidan, Malam Jabba, Gilgit, Bagrote, & Kalpani =02(each).
<b>Jhelum:</b>	Kallar=57, Kotli=34, Mandibahauddin=25, Muzaffarabad (Airport=22 & City=10), Chakwal=20, Domel=19, Mangla & Palandri=17, Multan (Airport=14 & City=12), Jhelum=14, Balakot=12, Rawalakot=11, Bandi Abbaspur, Garhi Dopatta & Chattar Kallas=09(each), Sharda=06, Dhulli=04.
<b>Chenab:</b>	Hafizabad=23, Gujranwala (City=21, Liqat Bagh=18, Peoples Colony=10, Model Town=08, Sheranwala Bagh=04), Sialkot Airport=11, Shorkot (Airbase)=08, Marala=02.
<b>Ravi:</b>	Khanewal=17, Faisalabad (Allama Iqbal Colony=98, Gulam Muhammad Abad=88, Dogar Basti=83, Madina Town=80, Gulistan Colony=74 & City=07), T.T. Singh & Sahiwal=04(each).
<b>Sutlej:</b>	Bahawalpur (Airport=06 & City=04), Bahawalnagar=04.
<b>Others:</b>	Karachi [Quaidabad=39, Surjani Town=24, Korangi=18, North Karachi & Nazimabad=17(each), University Road & Jinnah Terminal=16(each), Faisal Base=15, Masroor=13, Airport=12, Gulshan-e-Maymar=12, Kemari=09, Gadap Town & Gulshan-e-Hadeed=04(each)], Kalat=32, Ziarat=39, Khuzdar=30, Muslim Bagh=20, Loralai=17, Sibbi=11, Quetta [Sheaikh Manda & Samungli=09(each)], Ormara=04.

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**(Shahid Abbas)**  
Chief Meteorologist  
FFD Lahore

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**FLOOD FORECASTING DIVISION**  
**46-JAIL ROAD LAHORE-54000**

BULLETIN No. B-078/24

Dated: - 31<sup>st</sup> August, 2024  
Time: - 11:20 hours (PST)

**I: WEATHER/RAINFALL FORECAST FOR NEXT 24-HRS:**

RIVERS	Upper Catchments (Above Rim Stations)	Lower Catchments (Below Rim Stations)	<b>RESERVOIRS LEVEL (FEET) at (0600 PST)</b>	
INDUS	Isolated thunderstorm rain	Isolated thunderstorm rain (Rawalpindi Division)	<b>TARBELA</b>	
JHELUM	-do-	-do- (Sargodha Division)	Current:	1550.00
CHENAB	-do-	-do- (Gujranwala Division)	Max. Conservation:	1550.00
RAVI	-do-	-do- (Lahore Division)	Live Storage	100.00%
SUTLEJ	-do-	-do- (Bahawalpur Division)	<b>MANGLA</b>	
			Current:	1220.85
			Max Conservation:	1242.00
			Live Storage	77.83%

**II: QUANTITATIVE FLOOD FORECAST OF GAUGING STATIONS (IN THOUSANDS OF CUSECS)**

RIVERS	Stations	Design Capacity	Actual Observations at 0600 PST		Quantitative Forecast for Next 24-hrs (Inflow)	Qualitative Forecasted Flood Level (Inflow)	Max Flood Peaks (In Thousands of Cusecs)	
			Inflow	Outflow			Historical	Flood Season 2024
INDUS	Tarbela	1500	190.0	155.6	170-190	Below Low	832.0 (2010)	350.0
	Kalabagh	950	231.5	227.9	230-255	Low	950.0 (1942)	401.7
	Chashma	950	242.6	219.9	230-255	-do-	1038.9 (2010)	432.7
	Taunsa	1100	218.4	202.4	220-255	-do-	960.0 (2010)	442.2
	Guddu	1200	193.5	188.0	No Sig. change	Below Low	1199.7 (1976)	431.3
	Sukkur	1500	182.8	173.2	-do-	-do-	1166.6 (1986)	401.1
	Kotri	875	337.2	335.6	335-340	Medium	980.3 (1956)	337.2
KABUL	Nowshera	-	32.7	32.7	No Sig. change	Below Low	391.3 (1990)	114.2
JHELUM	Mangla	1060	50.0	8.0	30-50	-do-	1090.0 (1992)	176.0
	Rasul	850	42.3	41.4	20-40	-do-	952.2 (1992)	67.8
CHENAB	Marala	1100	72.8	43.6	50-70	-do-	1100.0 (1957)	178.8
	Khanki	1100	61.5	54.8	60-80	-do-	1086.5 (1959)	177.1
	Qadirabad	807	49.3	31.3	50-70	-do-	948.5 (1992)	163.2
	Trimmu	645	33.9	24.2	No Sig. change	-do-	944.0 (1928)	96.3
	Punjnad	700	53.1	47.2	-do-	-do-	802.5 (1973)	72.3
RAVI	Jassar	275	5.0	5.0	-do-	-do-	680.0 (1955)	40.4
	Shahdara	250	17.8	17.8	-do-	-do-	576.0 (1988)	28.0
	Balloki	225	52.8	31.1	-do-	-do-	389.8 (1988)	56.3
	Sidhnai	150	30.2	24.7	-do-	-do-	330.2 (1988)	32.8
SUTLEJ	G.S. Wala	--	0.4	0.4	-do-	-do-	837.0 (1955)	19.7
	Sulemanki	325	16.6	11.2	-do-	-do-	598.9 (1955)	46.2
	Islam	300	7.1	6.2	-do-	-do-	492.6 (1955)	12.5

Isolated= 20 to 30% of area Scattered= 30 to 50% of area | Widespread= 90 to 100% of area R= Rising, F= Falling

Note: Concerned Departments may contact FFD, Lahore for rectification up-dation (if any)

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**(Shahid Abbas)**  
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**FFD Lahore**

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BULLETIN No. C-078/24

Dated: 31<sup>st</sup> August, 2024  
Time: 11:20 hours (PST)

**SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR RIVERS' CATCHMENTS' (01<sup>st</sup>- September, 2024 to 07<sup>th</sup>-September, 2024)**

➤ **RAINFALL OUTLOOK:**

A fresh spell of moderate to heavy rainfall, with isolated very heavy showers, is expected over the upper catchments of all the major rivers along with Islamabad, Khyber Pakhtunkhwa and Punjab from 2nd to 3rd September.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

From September 2nd to 3rd, Medium to High level flows are expected in the River Jhelum upstream of Mangla, while Low to Medium flows are anticipated in the River Chenab and in the nullahs within the catchments of the Rivers Ravi and Chenab. Flows may also increase in the River Indus at Tarbela.

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**Note:** This forecast is updated on daily basis.