

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

BULLETIN No. A-045/24

**Dated: - 29th July, 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 Tarbela is in low flood level, while all the other major rivers are flowing below Low flood level.

Alert: During 30th July to 4th August, **Medium to High level** flood is expected in rivers **Jhelum Upstream Mangla** (with sharp peak up to **Very High flood level**), **Kabul** and its tributaries & **Chenab** at Marala, Khanki and Qadirabad along with nullahs of Rivers **Ravi** and Chenab catchments.

Low to Medium level flows are expected in River Indus at Tarbela, hill torrents of DG Khan division and nullahs of Zhob, Sibbi, Nasirabad, and Kalat divisions.

II: METEOROLOGICAL FEATURES:

- a) Yesterday's trough of **Strong Westerly Wave** over northwest Afghanistan today lies over northern parts of Afghanistan.
- b) Yesterday's Well-Marked Monsoon Low over east Madhya Pradesh moved westwards and today lies over central Madhya Pradesh as **Monsoon Low**.
- c) There is possibility of interaction between westerly wave and monsoon winds from 29th July to 1st August.
- d) Moderate moist currents are penetrating upper parts of the country from the Arabian Sea and Bay of Bengal up to 5000 feet. It is likely to strengthen further during the current week.
- e) Core of the Jetstream, with wind speeds more than 105 knots, lies over north of Afghanistan and is likely to approach upper parts of the country from 30th July. This may enhance the rainfall activity over the country.
- f) Speed divergence in Arabian sea and lower half of the country and speed convergence over upper half of the country may produce **Very Heavy rainfall** over upper half of the country.
- g) Seasonal low lies over northwest Balochistan.

III: WEATHER FORECAST FOR NEXT 24-HOURS:

Alert: WIDESPREAD thunderstorm rain of **MODERATE to HEAVY** intensity with Scattered **VERY HEAVY** falls and isolated **EXTREMELY HEAVY** rainfall is expected over the upper catchments of all the major rivers along with Khyber Pakhtunkhwa, Islamabad, Rawalpindi, Sargodha, Gujranwala, Lahore and DG Khan divisions. Scattered thunderstorm rain with Isolated **Heavy Falls** is also expected over Sindh & Zhob, Sibbi, Nasirabad, Multan, Bahawalpur, Sahiwal and Faisalabad divisions.

IV: WEATHER OUTLOOK DURING 30TH JULY TO 2ND August:

Alert: WIDESPREAD thunderstorm rain of **MODERATE to HEAVY** intensity with Scattered **VERY HEAVY** falls and isolated **EXTREMELY HEAVY** rainfall is expected over the upper catchments of all the major rivers along with Khyber Pakhtunkhwa, Islamabad, Rawalpindi, Sargodha, Gujranwala, Lahore and DG Khan Divisions. Scattered thunderstorm rain with Isolated **Heavy Falls** is also expected over Sindh & Zhob, Sibbi, Nasirabad, Multan, Bahawalpur, Sahiwal and Faisalabad divisions.

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

Indus:	Kakul=40, Kamra (Airbase)=33, Tarbela=30, Islamabad [Golra=21, Bokra=03, New Airport=02, Katcheri (Chaklala), PMD Headquarters & Shamsabad=01(each), Chaklala (Airbase)=Trace], Shinkhari=16, Murree=15, Risalpur=08, Mardan=06, Takht Bai=04, Phulra, Buner & Attock=03(each), Kohat (Airbase)=02, Kabul (Nowshera)=01, Badin, Rashidabad (Kalpani Nullah) & Mamad Gut=Trace(each).
Jhelum:	Bandi Abbaspur=44, Kallar=38, Mangla=36, Muzaffarabad (City=21 & Airport=10), Domel=15, Kotli=14, Chakothe=10, Dhulli & Panjera=07(each), Jhelum=03, Mandibahuddin & Chattar Kallas=01(each), Hajira, Baba Shah Jalal & Deolian=Trace(each).
Chenab:	Sialkot (Airport=90 & Cantt=15), Gujranwala [Liaqat Bagh=12, City=11, Peoples Colony=10, Sheranwala Bagh=08, Model Town=04], Marala=09.
Ravi:	Lahore [Samanabad=74, Gulshan e Ravi & Iqbal Town=73(each), Shahi Qilla=71, Qurtba chock=68, Luckshami=65, City=55, Gulburg=40, Upper Mall=38, Misri Shah=37, Shahdara=35, Taj Pura=30, Mughal Pura=27, Johar Town=22, Township=19, Airport=18], Narowal=Trace.
Sutlej:	-Nil-
Others:	Lasbela=11, Ziarat=07, Panjgur=01.

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(Shahid Abbas)
Chief Meteorologist
FFD Lahore

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46-JAIL ROAD LAHORE-54000

BULLETIN No. B-045/24

Dated: - 29th July, 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)	RESERVOIRS LEVEL (FEET) at (0600 PST)	
INDUS	Widespread thunderstorm/rain	widespread thunderstorm/rain (Rawalpindi Division)	TARBELA	
JHELUM	-do-	-do- (Sargodha Division)	Current:	1519.31
CHENAB	-do-	-do- (Gujranwala Division)	Max. Conservation:	1550.00
RAVI	-do-	-do- (Lahore Division)	Live Storage	70.9%
SUTLEJ	-do-	Scattered thunderstorm/rain (Bahawalpur Division)	MANGLA	
			Current:	1200.20
			Max Conservation:	1242.00
			Live Storage	58.5%

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	242.0	263.9	240-260	Low	832.0 (2010)	296.0
	Kalabagh	950	228.3	220.3	240-270	-do-	950.0 (1942)	254.8
	Chashma	950	251.6	235.0	240-270	-do-	1038.9 (2010)	273.4
	Taunsa	1100	222.7	196.6	No Sig. change	Below Low	960.0 (2010)	226.9
	Guddu	1200	179.4	144.0	-do-	-do-	1199.7 (1976)	192.9
	Sukkur	1500	124.0	74.4	-do-	do-	1166.6 (1986)	140.3
	Kotri	875	78.8	39.3	-do-	-do-	980.3 (1956)	84.7
KABUL	Nowshera	-	54.7	54.7	55-70	Low	391.3 (1990)	96.6
JHELUM	Mangla	1060	33.0	12.0	90-120 (sharp peak up to High)	Low to Medium	1090.0 (1992)	114.6
	Rasul	850	13.4	0.0	No Sig. change	Below Low	952.2 (1992)	66.1
CHENAB	Marala	1100	76.1	49.0	60-90	-do-	1100.0 (1957)	98.9
	Khanki	1100	62.0	54.1	60-80	-do-	1086.5 (1959)	95.1
	Qadirabad	807	58.4	38.8	60-70	-do-	948.5 (1992)	93.1
	Trimmu	645	28.5	12.9	No Sig. change	-do-	944.0 (1928)	46.5
	Punjad	700	11.3	0.0	-do-	-do-	802.5 (1973)	35.2
RAVI	Jassar	275	4.8	4.8	8-20	-do-	680.0 (1955)	26.8
	Shahdara	250	14.5	14.5	No Sig. change	-do-	576.0 (1988)	24.8
	Balloki	225	40.1	11.1	-do-	-do-	389.8 (1988)	48.3
	Sidhnai	150	23.6	8.1	-do-	-do-	330.2 (1988)	24.6
SUTLEJ	G.S. Wala	--	1.0	1.0	-do-	-do-	837.0 (1955)	5.4
	Sulemanki	325	17.3	4.1	-do-	-do-	598.9 (1955)	46.2
	Islam	300	3.1	0.8	-do-	-do-	492.6 (1955)	8.6

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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BULLETIN No. C-045/24

Dated: 29th July, 2024
Time: 11:20 hours (PST)

SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR RIVERS' CATCHMENTS' (30th-July, 2024 to 05th-August,2024)

➤ **RAINFALL OUTLOOK:**

WIDESPREAD thunderstorm rain of **MODERATE to HEAVY** intensity with Scattered **VERY HEAVY** falls and isolated **EXTREMELY HEAVY** rainfall is expected over the upper catchments of all the major rivers along with Khyber Pakhtunkhwa, Islamabad, Rawalpindi, Sargodha, Gujranwala, Lahore and DG Khan Divisions. Scattered thunderstorm rain with Isolated **Heavy Falls** is also expected over Sindh & Zhob, Sibbi, Nasirabad, Multan, Bahawalpur, Sahiwal and Faisalabad Divisions.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

Alert: During 30th July to 4th August, **Medium to High level** flood is expected in rivers **Jhelum Upstream Mangla** (with Sharp peak of very high flood level), **Kabul** and its tributaries & **Chenab** at Marala, Khanki and Qadirabad along with nullahs of Rivers **Ravi** and **Chenab** catchments. Low to Medium level flows are expected in River Indus at Tarbela, hill torrents of DG Khan division and nullahs of Zhob, Sibbi, Nasirabad, and Kalat Divisions.

Note: This forecast is updated on daily basis.

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