

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

BULLETIN No. A-047/24

**Dated: - 31st July, 2024
Time: - 11:30 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 Kabul at Nowshera is in medium flood level and river Indus at Kalabagh is in low flood level, while all the other major rivers are flowing below Low flood level.

Alert: During 02nd to 04th August, **Medium** to **High level** flood is expected in rivers **Jhelum Upstream Mangla, 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 northern parts of the country today lies over Kashmir and adjoining areas.
- b) Yesterday's Monsoon Low over southeast Sindh and adjoining areas moved west-southwestward and today lies over south of Gwadar (61.5 E, 23 N) in Arabian Sea and has become insignificant for upper Catchment of the all the Major rivers.
- c) A **Low-Pressure Area** has developed over northwest Uttar Pradesh which may affect upper catchments of rivers Sutlej Ravi, Chenab and Jhelum after 48 hours.
- d) An upper air circulation has developed over west Bengal and adjoining areas.
- e) Light to Moderate moist currents are penetrating most parts of the country from the Arabian Sea and Bay of Bengal up to 5000 feet.
- f) Well-marked Seasonal low lies over northwest Balochistan with central pressure below 994 hPa.

III: WEATHER FORECAST FOR NEXT 36-HOURS:

Scattered to widespread thunderstorm rain of **MODERATE to HEAVY** intensity is expected over the upper catchments of rivers Sutlej and Ravi along with Makran Coast. Scattered thunderstorm of moderate intensity with isolated heavy fall is expected over upper catchments rivers Indus, Kabul, Jhelum and Chenab along with Islamabad, Rawalpindi, Sargodha, Gujranwala and Lahore divisions. Isolated thunderstorm rain is also expected over Khyber Pakhtunkhwa, Sindh & Zhob, Sibbi, Nasirabad, Kalat, Multan, Bahawalpur, Sahiwal and Faisalabad divisions.

IV: WEATHER OUTLOOK DURING 02nd TO 04th 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 rivers Sutlej, Ravi, Chenab and river Jhelum (up to some extent) along with Gujranwala and Lahore Division. Scattered to Widespread thunderstorm rain of moderate to heavy intensity with isolated very heavy falls is expected over river Indus and Kabul along with Khyber Pakhtunkhwa, Islamabad, Rawalpindi, Sargodha, Multan, DG Khan, Bahawalpur, Sahiwal and Faisalabad Divisions.

A fresh rainfall spell over Sindh and Balochistan is likely to start from 3rd August.

V: RIVERS CATCHMENTS RAINFALL RECORDED >03 (MM) DURING LAST 24-HRS (UPTO 0800 PST):

Indus: Shinkiri=66, Murree=64, Phulra=58, Islamabad [Golra=52, Saidpur=24, PMD Headquarters=18, New Airport=11], Daggar=46, Khawagoobo Bridge=43, Besham=39, Kakul=35, Oghi=34, Ghalanai=32, Bosak Bidge=29, Tarbela=30, Malam Jabba=26, Cherat=22, Chowni Bridge Chitral=21, Saidu Sharif=19, Shaheed Benazirabad=17, Peshawar (City=14, Bacha Khan Airport=04), Chitral=14, Darashoot, Attock, Warsak Dam & Pattan=13(each), Kalam & Tando Jam=10(each), Shishi Dsrosh, Badin & Larkana=08(each), Dadu=07, Chilas=06, Arandu Nullah, Dir, Drosh, Gilgit, Chhor & Landi Kotal=05(each), Kamra (Airbase) & Gupis=04(each).

Jhelum: Muzaffarabad (City=79 & Airport=44), Balakot=66, Domel=64, Chattar Kallas=60, Garhi Dopatta=30, Chakothe=11, Sharda=10.

Chenab: Gujranwala [Model Town=38, Peoples Colony=33, Liaqat Bagh=12, Sheranwala Bagh=09].

Ravi: Lahore [Airport=16, Luckshami=10, Johar Town & Township=08(each), Misri Shah=06], Sheikhpura & Khanewal=04(each).

Sutlej: Bahawalnagar=09.

Others: Karachi [Gadap Town=57, Orange Town=36, Surjani Town=28, North Karachi=27, Gulshan e Maymar=17, Nazimabad=16, Masroor=14, Bin Qasim & Quaidabad=13(each), Kemari=11, Faisal Base=10, University Road=08, Jinnah Terminal=07, Korangi=06], Lasbela=05.

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(Shahid Abbas)
Chief Meteorologist
FFD Lahore

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

BULLETIN No. B-047/24

Dated: - 31st July, 2024
Time: - 11:30 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) TARBELA Current: 1526.89 Max. Conservation: 1550.00 Live Storage 77.7% MANGLA Current: 1202.15 Max Conservation: 1242.00 Live Storage 60.3%
INDUS	Scattered thunderstorm/rain	Scattered thunderstorm/rain (Rawalpindi Division)	
JHELUM	-do-	-do- (Sargodha Division)	
CHENAB	-do-	-do- (Gujranwala Division)	
RAVI	Scattered to Widespread thunderstorm/rain	-do- (Lahore Division)	
SUTLEJ	-do-	Isolated thunderstorm/rain (Bahawalpur Division)	

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	318.0	163.0	300-325	Low	832.0 (2010)	318.0
	Kalabagh	950	263.4	255.4	270-300	-do-	950.0 (1942)	266.9
	Chashma	950	251.2	234.9	250-280	-do-	1038.9 (2010)	273.4
	Taunsa	1100	221.5	194.8	No Sig. change	Below Low	960.0 (2010)	227.0
	Guddu	1200	176.2	145.6	-do-	-do-	1199.7 (1976)	192.9
	Sukkur	1500	128.0	79.9	-do-	do-	1166.6 (1986)	140.3
	Kotri	875	76.2	42.5	-do-	-do-	980.3 (1956)	84.7
KABUL	Nowshera	-	101.9	101.9	90-120	Medium	391.3 (1990)	101.9
JHELUM	Mangla	1060	55.0	10.0	50-80 (Sharp peak of Medium level)	Low	1090.0 (1992)	114.6
	Rasul	850	7.7	5.3	No Sig. change	Below Low	952.2 (1992)	66.1
CHENAB	Marala	1100	76.2	49.0	60-90	-do-	1100.0 (1957)	98.9
	Khanki	1100	64.4	56.5	No Sig. change	-do-	1086.5 (1959)	95.1
	Qadirabad	807	60.9	41.3	-do-	-do-	948.5 (1992)	93.1
	Trimmu	645	33.6	18.0	-do-	-do-	944.0 (1928)	46.5
	Punjnad	700	21.0	7.1	-do-	-do-	802.5 (1973)	35.2
RAVI	Jassar	275	5.0	5.0	-do-	-do-	680.0 (1955)	26.8
	Shahdara	250	15.4	15.4	-do-	-do-	576.0 (1988)	24.8
	Balloki	225	41.7	12.8	40-50	Low	389.8 (1988)	48.3
	Sidhnai	150	23.0	9.1	No Sig. change	Below Low	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	3.3	1.3	-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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(Shahid Abbas)
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BULLETIN No. C-047/24

Dated: 31st July, 2024
Time: 11:30 hours (PST)

SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR
RIVERS' CATCHMENTS' (01st-August, 2024 to 07th-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 rivers Sutlej, Ravi and Chenab with some extend river Jhelum along with Gujranwala and Lahore Division. Scattered to Widespread thunderstorm rain of moderate to heavy intensity with isolated very heavy fall is expected over river Indus and Kabul along with Khyber Pakhtunkhwa, Islamabad, Rawalpindi, Sargodha, Multan, DG Khan, Bahawalpur, Sahiwal and Faisalabad Divisions.

A fresh rainfall spell over Sindh and Balochistan is likely to start from 3rd August.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

Alert: During 02nd to 4th August, **Medium to High level** flood is expected in rivers **Jhelum Upstream Mangla, 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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