

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

BULLETIN No. A-032/24

**Dated: - 16th July, 2024
Time: - 11:00 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 low flood level. Due to increasing outflow from Tarbela Dam, river Indus at Tarbela and Chashma is in Low flood level whereas all the other major rivers are flowing below low flood level.

II: METEOROLOGICAL FEATURES:

- a. Yesterday's trough of westerly wave over northern Afghanistan has moved to northeastern Afghanistan and adjoining Pakistan. It is very likely to affect the upper half of the country starting tonight.
- b. Synoptic analysis shows moderate to strong pressure gradient over the northern parts of Afghanistan.
- c. A cyclonic circulation lies over west Madhya Pradesh, its height is up to 18000 feet.
- d. Light to moderate moisture from the Bay of Bengal is penetrating the lower half of the country up to 5000 feet. Due to upper air speed divergence along the Himalayas, this moisture is likely to strengthen towards upper part of the country. Moisture from the Arabian Sea is temporarily cut off but expected to revive within 24 hours.
- e. Weak Seasonal low is located over east Balochistan and adjoining areas.
- f. Weak monsoon trough lies south off the foothills of the Himalayas. It is likely to become more marked over the next two days.

III: WEATHER FORECAST FOR NEXT 24-HOURS:

Scattered thunderstorm/rain of moderate intensity is expected over the upper catchments of all the Major rivers along with South Sindh, Islamabad & Rawalpindi, Sargodha, Gujranwala, Peshawar, Kohat, Bannu, D.I Khan and Kalat Divisions. Isolated thunderstorm rain is expected Lahore, DG Khan, Bahawalpur, Zhob, Sibbi, Nasirabad and Kalat Divisions.

IV: WEATHER OUTLOOK FOR NEXT 48-HOURS:

Monsoon activity is likely to enhance further.

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

- Indus: Arandu Nullah=31,Dir=28, Khawagoobo Bridge=25, Pashat-Bajaur=18, Darashoot=17, Warsak Dam=11, Lower Dir=09, Kalam=08, Peshawar (Airport=08, Bacha Khan A/P=06 & City=02), Shishi Daroosh & Ghalanai=03(each), Bosak Bridge, Chitral, Saidu Sharif=02(each), Drosh, Khaar-Bajaur, Astore, Malam Jabba, Takht Bai, Kabul, Landi Kotal, Kohat (Airbase) & Cherat=01(each), Islamabad (Zero point), Gilgit, Tanda Dam, Kamra (Airbase), Risalpur, Rashid abad (Kalpani)=Trace(each).
- Jhelum: Sharda & Hajira=Trace(each).
- Chenab: Multan(City)=Trace.
- Ravi: -Nil-
- Sutlej: -do-
- Others: Met complex Karachi=Trace.

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

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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	Scattered thunderstorm/rain	Scattered thunderstorm/rain (Rawalpindi Division)	TARBELA Current: 1523.07 Max. Conservation: 1550.00 MANGLA Current: 1195.50 Max Conservation: 1242.00
JHELUM	-do-	-do- (Sargodha Division)	
CHENAB	-do-	-do- (Gujranwala Division)	
RAVI	-do-	Isolated thunderstorm/rain (Lahore Division)	
SUTLEJ	-do-	-do- (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	153.0	270.8	140-155	Below Low	832.0 (2010)	296.0
	Kalabagh	950	204.4	196.4	205 R 310	Low	950.0 (1942)	234.2
	Chashma	950	273.4	261.9	250-270	-do-	1038.9 (2010)	254.4
	Taunsa	1100	214.8	189.8	No Sig. change	Below Low	960.0 (2010)	223.4
	Guddu	1200	177.2	139.3	-do-	-do-	1199.7 (1976)	192.9
	Sukkur	1500	133.5	81.6	-do-	-do-	1166.6 (1986)	140.3
	Kotri	875	58.8	16.2	-do-	-do-	980.3 (1956)	82.5
KABUL	Nowshera	-	64.9	64.9	60-70	Low	391.3 (1990)	96.6
JHELUM	Mangla	1060	32.0	15.0	25-45	Below Low	1090.0 (1992)	114.6
	Rasul	850	8.8	0.0	No Sig. change	-do-	952.2 (1992)	66.1
CHENAB	Marala	1100	48.2	22.2	45-55	-do-	1100.0 (1957)	98.9
	Khanki	1100	17.6	11.2	No Sig. change	-do-	1086.5 (1959)	95.1
	Qadirabad	807	22.7	9.7	-do-	-do-	948.5 (1992)	93.1
	Trimmu	645	29.5	13.6	-do-	-do-	944.0 (1928)	46.5
	Punjnad	700	22.0	8.1	-do-	-do-	802.5 (1973)	35.2
RAVI	Jassar	275	2.6	2.6	-do-	-do-	680.0 (1955)	7.1
	Shahdara	250	13.3	13.3	-do-	-do-	576.0 (1988)	18.4
	Balloki	225	32.4	7.0	-do-	-do-	389.8 (1988)	38.8
	Sidhnai	150	16.6	1.3	-do-	-do-	330.2 (1988)	21.5
SUTLEJ	G.S. Wala	--	1.0	1.0	-do-	-do-	837.0 (1955)	5.4
	Sulemanki	325	17.1	5.0	-do-	-do-	598.9 (1955)	46.2
	Islam	300	7.4	5.8	-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)

(Shahid Abbas)
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BULLETIN No. C-032/24

Dated: - 16th July, 2024
Time:- 11:00 hours (PST)

SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR RIVERS' CATCHMENTS' (17th-July, 2024 to 23rd-July,2024)

➤ **RAINFALL OUTLOOK:**

No significant flood generating rainfall is expected over the upper catchments of all Major rivers.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

No High flood situation is expected.

Note: This forecast is updated on daily basis.

(Shahid Abbas)
Chief Meteorologist
FFD Lahore