

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

BULLETIN No. A-020/24

Dated: - 04th 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 Kabul at Nowshera is in medium flood level where as all the other major rivers are flowing below low flood level. Medium to High level flood peaks are expected in the River Jhelum at Mangla upstream, River Chenab at Marala & downstream, and the River Kabul at Nowshera and its tributaries between 4th and 7th July 2024. Flows are also likely to increase in the nullahs of Rivers Ravi and Chenab catchments along with hill torrents of DG Khan Division during the same period. Urban flooding is also expected in Lahore, Sialkot, Gujranwala, Narowal, Rawalpindi, Faisalabad and Peshawar from 04th to 07th July.

II: METEOROLOGICAL FEATURES:

- a. Yesterday's strong trough of an extratropical storm over the northeastern parts of Afghanistan and adjoining areas moved eastwards and today lies over the northern parts of the country. It is expected to remain stagnant for the next three days and is likely to significantly affect the upper half of the country including upper catchment areas in India, from the 4th to the 7th.
- b. Presence of sub-tropical jet stream over north of the country with speeds of more than 100 kt providing a favorable environment for development of current weather systems.
- c. The latest vertical wind analysis over Southwest Asia shows a moderate moisture influx from Arabian Sea as well as Bay of Bengal, advancing toward the upper catchments of all the major rivers and extending up to 5000 feet. Influenced by a trough of an extratropical storm and the jet stream over the northern part of the country, along with the divergence of winds along the foothills of the Himalayas in India towards Pakistan, is resulting in strengthening of this moisture incursion.
- d. Steep pressure gradient persists over northeastern parts of Afghanistan which may produce stronger winds up to 7th July.
- e. Yesterday's marked Monsoon trough along the foothill of Hamaliya from Bay of Bengal to eastern rivers catchments persists.
- f. A seasonal low is situated over the northeast Balochistan and adjoining areas, with a central pressure below 992 hPa. Its trough is extending northwards.

III: WEATHER FORECAST FOR NEXT 24-HOURS:

Widespread moderate to heavy thunderstorm rain/ showers with isolated very heavy falls is expected over the upper catchments of all the major rivers along with Khyber Pakhtunkhwa and Punjab except Multan and Bahawalpur Division where isolated thunderstorm rain may occur.

IV: WEATHER OUTLOOK:

Current wet spell is likely to continue up to 7th July with same intensity.

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

- Indus: Islamabad[Chaklala (Airbase)=44, Shamsabad=39, Golra=28, PMD Headquarters=23, Bokra=20, Saidpur=19 & New Airport=14], Lower Dir=34, Tarbela=25, Barkhan=11, Pashat-Bajaur=06, Takht Bai=05, Bosak Bidge=03, Buner, Dratian, Murree, Khaar-Bajaur, Attock, Mardan & Risalpur=01(each), Arandu Nullah, Kamra (Airbase), Karor(Layyah) & Bhakkar=Trace(each).
- Jhelum: Mangla=56, Kallar=25, Jhelum=22, Chakwal=11, Garhi Dopatta=07, Kotli=06, Muzaffarabad[City=06 & Airport=05], Hajira=04, Baba Shah Jalal=03, Bandi Abbaspur=02, Panjera & Rawalakot=01(each), Mandibahauddin=Trace.
- Chenab: Sialkot (Cantt=43 & Airport=18), Gujrat=35, Gujranwala=13, Marala=02.
- Ravi: Narowal=32, Lahore[Airport=09, Qurtba chock=04, City & Upper Mall=03(each), Luckshami, Taj Pura & Johar Town=02(each),Head Office WASA=01, Shahi Qilla, Mughal Pura, Samanabad, Shahdara & Misri Shah=Trace(each)], Zafarwal=02.
- Sutlej: Kasur=04.
- Others: -Nil-

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(Shahid Abbas)
Chief Meteorologist
FFD Lahore

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46-JAIL ROAD LAHORE-54000

BULLETIN No. B-020/24

Dated: - 04th 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 Current: 1491.96 Max. Conservation: 1550.00 MANGLA Current: 1187.35 Max Conservation: 1242.00
JHELUM	-do-	-do- (Sargodha Division)	
CHENAB	-do-	-do- (Gujranwala Division)	
RAVI	-do-	-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	286.0	124.8	285-300	Low	832.0 (2010)	286.0
	Kalabagh	950	198.2	190.2	No Sig. change	Below Low	950.0 (1942)	233.6
	Chashma	950	206.4	199.8	-do-	-do-	1038.9 (2010)	234.0
	Taunsa	1100	195.4	168.0	-do-	-do-	960.0 (2010)	207.5
	Guddu	1200	143.5	105.3	-do-	-do-	1199.7 (1976)	176.6
	Sukkur	1500	80.1	32.6	-do-	-do-	1166.6 (1986)	135.5
	Kotri	875	38.4	1.3	-do-	-do-	980.3 (1956)	82.5
KABUL	Nowshera	-	93.0	93.0	85-95	Low to Medium	391.3 (1990)	96.6
JHELUM	Mangla	1060	65.0	29.0	80-110	Low to Medium <small>(sharp peak up to High level)</small>	1090.0 (1992)	70.0
	Rasul	850	16.1	0.0	No Sig. change	Below Low	952.2 (1992)	66.1
CHENAB	Marala	1100	80.7	49.0	80 R 170	Medium	1100.0 (1957)	86.1
	Khanki	1100	56.4	48.2	60 R 160	Low to Medium	1086.5 (1959)	60.1
	Qadirabad	807	65.7	46.2	65-90	Below Low	948.5 (1992)	65.7
	Trimmu	645	33.0	15.6	No Sig. change	-do-	944.0 (1928)	42.3
	Punjnad	700	10.1	0.0	-do-	-do-	802.5 (1973)	33.8
RAVI	Jassar	275	2.1	2.1	3-15	-do-	680.0 (1955)	5.3
	Shahdara	250	14.1	14.1	No Sig. change	-do-	576.0 (1988)	16.2
	Balloki	225	33.9	7.3	-do-	-do-	389.8 (1988)	38.8
	Sidhnai	150	18.4	2.3	-do-	-do-	330.2 (1988)	18.4
SUTLEJ	G.S. Wala	--	0.4	0.4	-do-	-do-	837.0 (1955)	0.7
	Sulemanki	325	16.5	3.3	-do-	-do-	598.9 (1955)	46.2
	Islam	300	2.8	0.4	-do-	-do-	492.6 (1955)	4.2

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-020/24

Dated: - 04th July, 2024
Time: - 11:20 hours (PST)

SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR
RIVERS' CATCHMENTS' (05th-July, 2024 to 11th-July,2024)

➤ **RAINFALL OUTLOOK:**

Widespread activity of **Moderate to Heavy** thundershower with isolated **Very Heavy** fall is likely up to **7th July 2024** over upper catchments of all the major rivers and decrease thereafter.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

Medium to High level flood peaks are expected in the River Jhelum at Mangla upstream, River Chenab at Marala and downstream, and River Kabul at Nowshera and its tributaries between 4th to 7th July 2024. Flows are also likely to increase in the nullahs of Rivers Ravi and Chenab catchments along with hill torrents of D.G Khan division, during the 4th to 7th.

Note: This forecast is updated on daily basis.

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(Shahid Abbas)
Chief Meteorologist
FFD Lahore