

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

BULLETIN No. A-018/24

Dated: - 02nd July, 2024
Time: - 11:00 hours (PST)

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| <ol style="list-style-type: none">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). | <ol style="list-style-type: none">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. |
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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. Flows are anticipated to increase in all major rivers and their tributaries starting from 3rd July 2024. 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 4th to 7th.

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 extratropical storm over northeastern parts of Afghanistan and adjoining areas remained stationary. It is very likely to affect significantly upper half of the country during the current week.
- b. Presence of sub-tropical jet stream north of the country 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 the Arabian Sea as well as Bay of Bengal, advancing toward the upper catchments of eastern rivers and extending up to 5000 feet. The strength of the moisture incursion from both sources, influenced by a trough of an extratropical storm and jet stream, is expected to become forceful from 4th July.
- d. Steep pressure gradient lies over northeast parts of Afghanistan which may produce stronger winds during the current week.
- e. Monsoon trough along the foothill of Hamaliya from Bay of Bengal to eastern rivers catchments has become more marked.
- f. A seasonal low is situated over the northeast of Balochistan and adjoining areas, with a central pressure of below 990 hPa.

III: WEATHER FORECAST FOR NEXT 24-HOURS:

Scattered thunderstorm with Moderate to Heavy rain is expected over the upper catchments of rivers Ravi and Sutlej. Scattered thunderstorm with moderate intensity is expected over the upper catchments of rivers Indus, Jhelum and Chenab as well as Islamabad, Rawalpindi, Sargodha, Gujranwala Lahore, DG Khan divisions. Isolated thunderstorm rain of light intensity is also expected over South & Southeast Sindh, Bahawalpur, Sibbi, Nasirabad, Kalat and Makran divisions.

IV: WEATHER OUTLOOK:

Moderate to Heavy rainfall with isolated Very Heavy fall is likely to start over the upper catchments of all the major rivers, along with Punjab, Khyber-Pakhtunkhwa and northeast Balochistan from 2nd July 2024. However, widespread activity of maximum intensity is likely during 4th to 7th July 2024.

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

Indus:	Saidu Sharif=27, Malam Jabba=26, Oghi=24, Shinkiari & Phulra=20 (each), Tarbela=10, Besham=08, Buner=05, Barkhan=04, Murree & Kakul=02(each), Arandu Nullah & Lower Dir=01(each), Islamabad Chaklala (Airbase), Dir, & Darashoot=Trace(each).
Jhelum:	Balakot=35, Palandri=20, Rawalakot=13, Sharda=08, Domel=05, Garhi Dopatta & Bandi Abbaspur=03(each), Hajira & Chattar Kallas=02(each), Talhatta=01, Panjera=Trace.
Chenab:	Barnala=02, Sialkot (Cantt), Marala, Shorkot (Airbase) & Jhang=Trace(each).
Ravi:	Narowal=02, Lahore (Airport)=Trace
Sutlej:	-Nil-
Others:	-do-

(Saqib Hussain)
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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: 1479.20 Max. Conservation: 1550.00 MANGLA Current: 1185.30 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	252.0	126.6	255-275	Low	832.0 (2010)	252.0
	Kalabagh	950	214.2	206.2	No Sig. change	Below Low	950.0 (1942)	233.6
	Chashma	950	206.3	199.7	-do-	-do-	1038.9 (2010)	234.0
	Taunsa	1100	198.8	171.0	-do-	-do-	960.0 (2010)	207.5
	Guddu	1200	119.3	91.7	-do-	-do-	1199.7 (1976)	176.6
	Sukkur	1500	57.6	18.5	-do-	-do-	1166.6 (1986)	135.5
	Kotri	875	47.8	5.5	-do-	-do-	980.3 (1956)	82.5
KABUL	Nowshera	-	91.8	91.8	90-110	Medium	391.3 (1990)	96.6
JHELUM	Man gla	1060	48.0	17.9	50-80	Low	1090.0 (1992)	70.0
	Rasul	850	26.0	5.3	No Sig. change	Below Low	952.2 (1992)	66.1
CHENAB	Marala	1100	85.7	54.3	85-110	Low	1100.0 (1957)	85.7
	Khanki	1100	49.6	41.6	50-80	Below Low	1086.5 (1959)	53.5
	Qadirabad	807	57.2	37.6	50-70	-do-	948.5 (1992)	57.2
	Trimmu	645	26.6	9.2	No Sig. change	-do-	944.0 (1928)	42.3
	Punjnad	700	13.9	0.0	-do-	-do-	802.5 (1973)	33.8
RAVI	Jassar	275	3.6	3.6	5-10	-do-	680.0 (1955)	5.3
	Shahdara	250	14.1	14.1	No Sig. change	-do-	576.0 (1988)	16.2
	Balloki	225	33.8	7.3	-do-	-do-	389.8 (1988)	33.8
	Sidhnai	150	16.1	0.0	-do-	-do-	330.2 (1988)	17.3
SUTLEJ	G.S. Wala	--	0.4	0.4	-do-	-do-	837.0 (1955)	0.7
	Sulemanki	325	16.4	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)

(Saqib Hussain)
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for Chief Meteorologist
FFD Lahore

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BULLETIN No. C-018/24

Dated: - 02nd July, 2024
Time: - 11:00 hours (PST)

SUBJECT: -WEEKLY SIGNIFICANT WEATHER OUTLOOK FOR RIVERS' CATCHMENTS' (03rd-July, 2024 to 09th-July, 2024)

➤ **RAINFALL OUTLOOK:**

Widespread activity of **Moderate to Heavy** rainfall intensity with isolated **Very Heavy** fall is likely during **4th to 7th July 2024** over upper catchments of all the major rivers.

➤ **FLOOD SITUATION IN MAJOR RIVERS:**

Flows are anticipated to increase in all major rivers and their tributaries starting from 3rd July 2024. **Medium to High level** flood peaks are expected in the River Jhelum at Mangla upstream, the River Chenab at Marala and 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 during the 4th to 7th.

Note: This forecast is updated on daily basis.

(Saqib Hussain)
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