

MOST IMMEDIATE / BY FAX



F.2 (E)/2024-NDMA (MW/SITREP-21)
Government of Pakistan
Prime Minister's Office
National Disaster Management Authority (HQ)
Main Murree Road Near ITP Office, Islamabad



Dated: **21 July 2024**

Subject: **NDMA - Monsoon 2024 Daily Situation Report No. 21**

NDMA Monsoon 2024 Daily Situation Report No **21**, covering period from **1300 hours 20 July to 1300 hours 21 July 2024** is enclosed for information / necessary action, please.

(Hammad Sadiq Rana)
(Director (Response))
Tel No: 051-9030924
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To: Federal Ministries & Departments (Interior, Planning, Food Security & Research, National Health Services, Information & Broadcasting, Climate Change, Pakistan Railways, Communications, Energy & Water Resources, Finance, Information and Broadcasting (MOIB), Press Information Department (PID), Economic Affairs Division Chief Secretaries, Provincial Governments, GB and AJ&K
Director Generals, PDMAs, GBDMA SDMA
Director Generals, Rescue 1122 (Punjab, Sindh, Balochistan, KP, GB & AJ&K)
Director General, Climate Change and Coastal Development, Government of Sindh
Director General, Sindh Coastal Development Authority, Karachi
Director General, Balochistan Coastal Development Authority
Chairman, National Highway Authority, Islamabad
Inspector General, National Highways& Motorway Police, Islamabad
Chairman, Pakistan Telecommunications Authority, Islamabad
Chairman, Federal Flood Commission, Islamabad
Chairman, Pakistan Tourism Development Corporation, Islamabad
Managing Director, National Transmission & Dispatch Corporation, Lahore
Principal Information Officer, Press Information Department, Islamabad
Commissioner Islamabad
Headquarters, Pakistan Maritime Security Agency, Karachi
Deputy Commissioner Islamabad
Joint Crises Management Cell, Joint Staff Headquarters, Chaklala Cantt
Staff Duties Directorate (SD Coord), General Headquarters, Rawalpindi
Military Operations Directorate (MO-4), General Headquarters, Rawalpindi Cantt
Engineer Directorate (Arms Branch), General Headquarters, Rawalpindi Cantt
ACNS (Operations), Naval Headquarters, Islamabad
ACAS (Operations), Air Headquarters, Islamabad Headquarters,
Frontier Works Organization (FWO), Rawalpindi
GSO-1, Inter Services Public Relations, General Headquarters, Rawalpindi Cantt
Directorate General, Inter-Services Intelligence (ISI), Islamabad
Headquarters, Pakistan Coast Guards, Karachi
Divisional Superintendent, Pakistan Railways Karachi
Cc: Secretary to Prime Minister, Prime Minister's Office, Islamabad Secretary, Cabinet Division, Islamabad
ID: PRO, DD (ICT)

MONSOON 2024 DAILY SITUATION REPORT NO - 21**(PERIOD COVERED: 1300 HOURS 20 JULY 2024 TO 1300 HOURS 21 JULY 2024)****1. Casualties and Injuries (Last 24 hours)****a. Deaths**

Province / Region	District	Deaths				Remarks
		M	F	C	T	
Balochistan	Khuzdar	0	0	1	1	Roof collapsed
KP	-	0	0	0	0	
Punjab	-	0	0	0	0	
Sindh	-	0	0	0	0	
Gilgit Baltistan	-	0	0	0	0	
AJ&K	-	0	0	0	0	
ICT	-	0	0	0	0	
Total	-	0	0	1	1	

b. Injuries

Province / Region	District	Injures				Remarks
		M	F	C	T	
Balochistan	Khuzdar	0	0	9	9	Roof collapsed
KP	-	0	0	0	0	
Punjab	-	0	0	0	0	
Sindh	-	0	0	0	0	
Gilgit Baltistan	-	0	0	0	0	
AJ&K	-	0	0	0	0	
ICT	-	0	0	0	0	
Total	-	0	0	9	9	

2. Damage of Infrastructure & Private Properties (Last 24 hours)**a. Houses Damage and Livestock Perished**

Province / Region	District	House Damage			Livestock
		Partial	Full	Total	
Balochistan	Khuzdar	0	1	1	0
KP	-	0	0	0	0
Punjab	-	0	0	0	0
Sindh	-	0	0	0	0
Gilgit Baltistan	-	0	0	0	0
AJ&K	-	0	0	0	0
ICT	-	0	0	0	0
Total	-	0	1	1	0

b. Roads, Bridges and Other Infrastructure Damaged in Last 24 hours

Province / Region	District	Roads / Tracks			Bridge				
		Length of road damage	Nature/ extent of damage (fully/ partially washed away/ water over flow)	Traffic situation (Alternate route/ diversion available)	Number of bridge	Type of bridge	Length of bridge	Nature/ Extent of Damage fully/ partially washed away/ water over flow)	Traffic situation (Alternate route/ diversion available)
Balochistan	-	-	-	-	-	-	-	-	-
KP	-	-	-	-	-	-	-	-	-
Punjab	-	-	-	-	-	-	-	-	-
Sindh	-	-	-	-	-	-	-	-	-
Gilgit Baltistan	-	-	-	-	-	-	-	-	-
AJ&K	-	-	-	-	-	-	-	-	-
ICT	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-

3. Cumulative Casualties - Deaths / Injuries (From 1300 Hours 1 July 2024 to 1300 Hours 21 July 2024):-

Province /Region	Deaths				Injured			
	M	F	C	T	M	F	C	T
Balochistan	2	0	1	3	0	0	9	9
KP	6	2	1	9	15	16	20	51
Punjab	6	5	15	26	33	23	31	87
Sindh	4	0	4	8	3	0	0	3
Gilgit Baltistan	0	0	0	0	0	0	0	0
AJ&K	0	0	1	1	2	0	0	2
ICT	0	0	0	0	0	0	0	0
Total	18	7	22	47	53	39	60	152

4. Cumulative Damages of Infrastructure & Private Properties (From 1300 Hours 1 July 2024 to 1300 Hours 21 July 2024):-

Province / Region	Roads (kms)	Bridges	House Damage			Livestock
			Partial	Full	Total	
Balochistan	0	0	0	1	1	0
KP	0	1	95	28	123	32
Punjab	0	0	44	0	44	36
Sindh	0	0	0	13	13	16
Gilgit Baltistan	0.34	1	0	0	0	0
AJ&K	0	0	1	0	1	0
ICT	0	0	0	0	0	0
Total	0.34	2	140	42	182	84

- (1) **Employment of Boats.** NTR.
- (2) **Employment of Aviation Activates.** NTR.
- (3) **Cumulative Relief Activities by PDMAs/SDMA/GBDMA (From 1300 Hours 20 July 2024 to 1300 Hours 21 July 2024):-**

Relief Items	Balochistan	KP	Punjab	Sindh	Gilgit Baltistan	AJ&K	ICT	Total
Tents	0	8	0	0	4	0	0	12
Ration Bags	0	0	0	0	62	0	0	62
Blankets	0	16	0	0	0	0	0	16
Quilts	0	0	0	0	0	0	0	0
Net Mosquito	0	0	0	0	0	0	0	0
Plastic Mats	0	10	0	0	0	0	0	10
Mattress	0	0	0	0	0	0	0	0
Sleeping Bags	0	0	0	0	0	0	0	0
Kitchen Sets	0	8	0	0	0	0	0	8
Hygiene Kits	0	0	0	0	0	0	0	0
First Aid Kits	0	0	0	0	0	0	0	0
Jerry can	0	0	0	0	0	0	0	0
Tarpaulin	0	0	0	0	0	0	0	0
Gabions	0	0	0	0	45	0	0	45
Sand Bags	0	0	0	0	100	0	0	100
Gas Cylinder	0	0	0	0	0	0	0	0
Water Cooler	0	0	0	0	0	0	0	0

8. **Dams and Reservoirs Level** - Attached at **Annex A.**
9. **Flood Alert / River Flows** - Attached at **Annex B.**
10. **Flood / Base Flow Data Obtained from India.** - Attached at **Annex C.**
11. **Rainfall Recorded During Last 24 Hours (0800-0800 hours each day).** Attached at **Annex D.**
12. **FFD Discharge Report Recorded at 21 July 2024 12:00 PST.** Attached at **Annex E.**

Note: SITREP data is preliminary as provided by respective PDMAs / GBDMA / SDMA / ICT Administration, Govt Depts and is subject to change.

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

BULLETIN No. B-037/24

Dated: - 21st 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	Isolated thunderstorm/rain	Isolated thunderstorm/rain (Rawalpindi Division)	TARBELA Current: 1516.72 Max. Conservation: 1550.00 Live Storage 68.8% MANGLA Current: 1196.95 Max Conservation: 1242.00 Live Storage 55.9%
JHELUM	-do-	-do- (Sargodha Division)	
CHENAB	-do-	-do- (Gujranwala Division)	
RAVI	-do-	-do- (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	168.0	186.7	160-170	Below Low	832.0 (2010)	296.0
	Kalabagh	950	227.1	219.1	230-250	-do-	950.0 (1942)	254.6
	Chashma	950	245.8	234.8	No Sig. change	-do-	1038.9 (2010)	273.4
	Taunsa	1100	224.7	204.7	-do-	-do-	960.0 (2010)	224.7
	Guddu	1200	177.6	140.0	-do-	-do-	1199.7 (1976)	192.9
	Sukkur	1500	124.6	74.6	-do-	-do-	1166.6 (1986)	140.3
	Kotri	875	84.7	45.3	-do-	-do-	980.3 (1956)	84.7
KABUL	Nowshera	-	54.9	54.9	50-55	-do-	391.3 (1990)	96.6
JHELUM	Mangla	1060	22.0	15.0	20-30	-do-	1090.0 (1992)	114.6
	Rasul	850	10.5	0.0	No Sig. change	-do-	952.2 (1992)	66.1
CHENAB	Marala	1100	66.1	38.3	70-90	-do-	1100.0 (1957)	98.9
	Khanki	1100	37.9	30.2	No Sig. change	-do-	1086.5 (1959)	95.1
	Qadirabad	807	38.0	20.0	-do-	-do-	948.5 (1992)	93.1
	Trimmu	645	19.4	4.3	-do-	-do-	944.0 (1928)	46.5
	Punjad	700	20.0	6.1	-do-	-do-	802.5 (1973)	35.2
RAVI	Jassar	275	9.2	9.2	7-15	-do-	680.0 (1955)	11.1
	Shahdara	250	18.4	18.4	No Sig. change	-do-	576.0 (1988)	18.4
	Balloki	225	31.0	5.6	-do-	-do-	389.8 (1988)	38.8
	Sidhnai	150	12.6	0.0	-do-	-do-	330.2 (1988)	21.5
SUTLEJ	G.S. Wala	--	1.0	1.0	-do-	-do-	837.0 (1955)	5.4
	Sulemanki	325	13.5	2.5	-do-	-do-	598.9 (1955)	46.2
	Islam	300	2.0	0.0	-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)

--sd/--
(Shahid Abbas)
Chief Meteorologist
FFD Lahore

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Chief Meteorologist: 04299200208 & Duty Officer 24/7 hrs: 04299200139, 04299205367-70 and Fax:04299200209 & 5367

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

BULLETIN No. A-037/24

Dated: - 21st July, 2024

Time: - 11:20 hours (PST)

- | | |
|---|---|
| <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 (PCW), 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:**

All the major rivers are flowing below low flood level.

II: METEOROLOGICAL FEATURES:

- a) According to the latest synoptic analysis, yesterday's Depression over northwest Bay of Bengal has significantly weakened into low and today centers over Southwest Odisha.
- b) A fresh weak trough of the westerly wave lies over northern parts of Afghanistan.
- c) Moderate pressure gradient lies over the upper parts of the country and adjoining Afghanistan.
- d) As a result of the weakening of depression into a low and speed divergence along the foothill of Himalayas towards the northwest, moisture influx from the Bay of Bengal towards the upper catchments is likely to strengthen; while moisture from the Arabian Sea is converging over southern Sindh and adjoining India up to 3,000 feet.
- e) Active Monsoon trough lies over south off the foothills of the Himalayas.
- f) Weak Seasonal low lies over east Balochistan.
- g) A cyclonic circulation lies over northeast Arabian Sea and adjoining areas of India.

III: WEATHER FORECAST FOR NEXT 24-HOURS:

Isolated thunderstorm/rain of light to moderate intensity is expected over the upper catchments of all the Major rivers along with Islamabad, Rawalpindi, Sargodha, Gujranwala, Lahore, Multan, Bahawalpur and Zhob Divisions. Scattered thunderstorm/rain of moderate intensity with isolated heavy fall is expected over Sindh, DG Khan, Sibbi, Kalat and Nasirabad Divisions.

IV: WEATHER OUTLOOK FOR NEXT 48-HOURS:

Monsoon activity is likely to revive in the upper catchments of all major rivers along with Northeast Balochistan, Khyber Pakhtunkhwa, Islamabad & Rawalpindi, Sargodha, Gujranwala, and Lahore Divisions.

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

Indus:	Hyderabad=07, Daggar=06, Barkhan=05, Shaheed Benazirabad=04, Padidan=03, Khawagoobo Bridge & Dadu=02(each), Dir, Moin-Jo-Daro, Peshawar (Airbase), Gilgit, Mirpur Khas, Rohri, Khairpur & Chilas=Trace(each).
Jhelum:	-Nil-
Chenab:	Gujranwala [Liaqat Bagh=44, Peoples Colony=40, Sheranwala Bagh=26, Model Town=24, City=16], Sialkot (Cantt=20 & Airport=01), Noorpur Thal=03, Marala=01.
Ravi:	Narowal=11, Lahore [Airport=05, Johar Town & Township=02(each), Misri Shah, Gulshan e Ravi, Upper Mall, Gulburg & City=Trace(each)].
Sutlej:	-Nil-
Others:	Karachi [Nazimabad=37, Kemari=30, Masroor=26, Korangi=22, Quaidabad=12, Faisal Base & DHA=07(each), Orangi Town=05, Malir Halt & Jinnah Terminal=04(each), Ibrahim Hyderi=03, University Road & Airport=02(each), Gulshan e Hadeed=01, Gulshan e Maymar, Hassan Square & Saadi Town=Trace(each)], Loralai=05, Lasbela=02.

--sd/--

(Shahid Abbas)
Chief Meteorologist
FFD Lahore

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Chief Meteorologist: 04299200208 & Duty Officer 24/7 hrs: 04299200139, 04299205367-70 and Fax:04299200209 & 5367

By Fax

Government of Pakistan
Ministry of Water Resources
Office of Pakistan Commissioner for Indus Waters
Suharwardy Road, (Wapda Building), G-7/1, Islamabad.

FLOOD SEASON 2024
WEEKLY FLOOD/BASE FLOW DATA
DATA AT (0600 HRS IST) REGARDING EASTERN RIVERS OBTAINED FROM INTERNET

Name of Dam	Full Reservoir Level (feet)	Live Storage Capacity at FRL (MAF)	Current Live Storage (MAF)	Current Reservoir Level (Feet)	Storage (%)	Storage last year (%)
i. Bhakra Dam on River Sutlej	1680	5.050	<u>1.861</u> 18.07.2024	1597.45	37	64
ii. Pong Dam on River Beas	1390	4.991	<u>1.132</u> 18.07.2024	1313.55	23	75
iii. Thein Dam on River Ravi	1732	1.900	<u>0.460</u> 18.07.2024	1635.58	24	85

The data is being shared for flows information,
Dated: 19th July 2024



(ADNAN MUMAHAMMAD)
Deputy Commissioner for Indus Waters
Tele: 051-9244674

Data source: www.bhmb.gov.in
www.cwc.gov.in

Copy forwarded by Fax to:

1. Secretary, Ministry of Water Resources, Islamabad.
2. Chief Secretary, GilgitBaltistan, Gilgit.
3. Chief Secretary, Government of Azad Jammu and Kashmir, Muzaffarabad.
4. Chief Secretary, Government of Punjab, Lahore.
5. Chief Secretary, Government of Sindh, Karachi.
6. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
7. Chief Secretary, Government of Balochistan, Quetta.
8. Secretary, Irrigation Department, Punjab, Lahore.
9. Secretary, Irrigation Department, Sindh, Karachi.
10. Secretary, Irrigation Department, Khyber Pakhtunkhwa, Peshawar.
11. Secretary, Irrigation Department, Balochistan, Quetta.
12. Director General (Water), Ministry of Water Resources, Islamabad.
13. Chairman, National Disaster Management Authority (NDMA), Islamabad.
14. CEA/CFPC, Islamabad.
15. Chairman, Indus River System Authority (IRSA), Islamabad.
16. M.O. Directorate, G.H.Q, Rawalpindi.
17. D.G. (Engrs), G.H.Q, Rawalpindi.
18. Engineers, 4-Corps, Lahore
19. Engineers, 30-Corps, Gujranwala.
20. Relief Commissioner/Senior Member, Board of Revenue, Punjab, Lahore.
21. D.G. (PDMA) Punjab, 40/A- Lawrence Road, Lahore.
22. Chief Engineer (H&WM), Wapda House, Lahore.
23. XEN Irrigation, Marala Headwork.
24. XEN Irrigation, Kasur.
25. Director, Irrigation Department, Government of the Punjab, Lahore.
26. Chief Meteorologist, F.F.D. 46-Jail Road, Lahore.
27. Office Incharge, F.W.C. 46-Jail Road, Lahore.



National Weather Forecasting Centre
Pakistan Meteorological Department



Total Rainfall (mm) last 24 hours on Sunday 21-07-2024 at 0800 PST				
Stations		Rainfall (mm)		
Sindh				
Karachi		(Nazimabad 37, Kemari 30, Masroor Base 26, Korangi 22, Quaidabad 12, Faisal Base, DHA 07, Orangi Town, Jinnah Terminal, Malir Halt 04, Ibrahim Hyderi 03, University Road, MOS 02, Gulshan-e-Hadeed 01, Gulshan-e-Maymar, Saadi Town, Hassan Square Trace)		
Hyderabad		07		
Nawabshah, Mirpur Khas, Jacobabad		04		
Padidan		03		
Dadu		02		
Jamshoro		(Bhulari 01)		
Khairpur, Mohenjo Daro, Rohri		Trace		
Punjab				
Sialkot		(City 20 & Airport 01)		
Gujranwala		16		
Narowal		11		
Lahore		(Airport 05, City Trace)		
Noor Pur Thal		03		
Balochistan				
Barkhan		05		
Lasbella		02		
Gilgit-Baltistan				
Gilgit, Chilas		Trace		
Khyber-Pakhtunkhwa				
NIL				
Kashmir				
NIL				
Maximum Wind Reported				
Station	Wind (kt)	Km/hr	Direction	Time (PST)
Lahore Airport	26	48	NE	0518
Maximum Water Level at Nullah Lai (Last 24 Hours)				
Station	Level (Feet)	Time (PST)	Flood Situation	
NIL				



FFD Discharge Report

Recorded at: 21-Jul-2024 12:00 PST

River	Site	Inflow		Outflow	
Indus	Tarbela	166,000	↘	137,300	NORMAL
	Kalabagh	227,130	→	219,140	NORMAL
	Chashma	246,138	↗	235,138	NORMAL
	Taunsa	224,749	→	204,749	NORMAL
	Guddu	177,553	→	140,043	NORMAL
	Sukkur	124,610	→	74,630	NORMAL
	Kotri	80,554	↘	40,429	NORMAL
Kabul	Nowshera	53,100	↘	53,100	NORMAL
Jhelum	Mangla	22,000	→	15,000	NORMAL
	Rasul	10,465	→	0	NORMAL
Chenab	Marala	55,371	↘	27,571	NORMAL
	Khanki	42,423	↗	34,698	NORMAL
	Q.Abad	34,188	↘	16,188	NORMAL
	Trimmu	20,912	↗	4,312	NORMAL
	Panjnad	19,968	→	6,108	NORMAL
Ravi	Jassar	11,826	↗	11,826	NORMAL
	Shahdara	18,365	→	18,365	NORMAL
	Balloki	32,360	↗	6,960	NORMAL
	Sidhnai	12,750	↗	0	NORMAL
Sutlej	GS Wala	1,014	→	1,014	NORMAL
	Sulemanki	13,526	→	2,502	NORMAL
	Islam	1,950	→	0	NORMAL

DAM	Current Level	Max Level	Dead Level
Tarbela Dam	1516.95 (+0.23)	1550	1402
Mangla Dam	1197.00 (+0.05)	1242	1050

Generated By DFO @ Flood Forecasting Division, Lahore. +92-42-99200139