



F.1 (E)/2022-NDMA (MW/SITREP)  
**Government of Pakistan**  
**Prime Minister's Office**  
**National Disaster Management Authority**  
**ISLAMABAD**



Dated: **16<sup>th</sup> August 2022**

Subject: **NDMA Monsoon 2022 Daily Situation Report No 064**

NDMA Monsoon 2022 Daily Situation Report No 064, covering period from 1300 hours on 15<sup>th</sup> August 2022 to 1400 hours 16<sup>th</sup> August 2022 is enclosed for information / necessary action, please.

**(Muhammad Ali Khan)**  
**Director (Response)**  
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To: Secretary to Prime Minister, Prime Minister's Office, Islamabad  
 Military Secretary to Prime Minister, Prime Minister's House, Islamabad

Cc: Secretary, Ministry of Climate Change, Islamabad  
 Director General, Pakistan Meteorological Department, Islamabad  
 Director General, Frontier Works Organization, Rawalpindi  
 Chairman, Federal Flood Commission, Islamabad  
 Chairman, National Highway Authority, Islamabad  
 Joint Commissioner, Pakistan Commission for Indus Water, Islamabad  
 Chief Meteorologist, Flood Forecasting Division, Lahore  
 Director General, NHEPRN, Islamabad  
 Director General, PDMA Balochistan, Quetta  
 Director General, PDMA Khyber Pakhtunkhwa, Peshawar  
 Director General, PDMA Punjab, Lahore  
 Director General, PDMA Sindh, Karachi  
 Director General, SDMA AJ&K, Muzaffarabad  
 Director General, GBDMA, Gilgit  
 Joint Crisis Management Cell, Joint Staff Headquarters, Rawalpindi  
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 Arms Branch, Engineers Directorate, GHQ, Rawalpindi  
 Director (SOF & Marines), Naval Headquarters, Islamabad  
 Director (Ops), Air Headquarters, Islamabad  
 Deputy Commissioner, Islamabad  
 Principal Information Officer, Press Information Department, Islamabad

ID: APS to Member (Ops), NDMA  
 APS to Member (A&F), NDMA  
 APS to Member (DRR), NDMA  
 Director (Logistics), NDMA  
 Director (R&R), NDMA  
 Director (Implementation), NDMA  
 Director (P&IC), NDMA  
 Director (Admin), NDMA  
 Director (Finance), NDMA  
 Director (Media & IT), NDM  
 APS to Chairman, NDM

1. **Deaths/ Injured**a. **Last 24 Hours**

Province /Region	Deaths				Injured				Remarks
	M	F	C	T	M	F	C	T	
AJ&K									NTR
Balochistan									
GB									
ICT									
KP						1		1	Due to roof collapse in Mohmand
Punjab	2 <sup>^</sup>	1	1	4 <sup>*</sup>	1	1	3	5 <sup>**</sup>	<sup>^</sup> Drowned due to flash flood in Taunsa <sup>*</sup> Due to roof collapse in Gujrat <sup>**</sup> <b>Due to Roof Collapse</b> i. 1x male in Multan ii. 1x Female and 3 x children in Gujrat
Sindh		1	2	3					Due to roof collapse in KSK
<b>Total</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>6</b>	

b. **Cumulative Deaths and Injured (14 June to date)**

Province /Region	Deaths				Injured			
	M	F	C	T	M	F	C	T
AJ&K	16	12	1	29	11	6	0	17
Balochistan	96	45	55	196	49	12	20	81
GB	2	4	3	9	1	0	3	4
ICT	1	0	0	1	0	0	0	0
KP	30	22	70	122	34	45	55	134
Punjab	65	37	39	141	128	91	63	282
Sindh	56	16	65	137	270	117	111	498
<b>Total</b>	<b>266</b>	<b>136</b>	<b>233</b>	<b>635</b>	<b>493</b>	<b>271</b>	<b>252</b>	<b>1016</b>

2. **Damages of Infrastructure & Private Properties**a. **Last 24 Hours**

Province /Region	Roads (km)	Bridges	Shops	Houses			Livestock
				PD	FD	Total	
AJ&K							
Balochistan				1335	440	1775*	
GB							
ICT							
KP				22	3	25	6
Punjab				2	0	2	
Sindh				11	0	11	
<b>TOTAL</b>				<b>1370</b>	<b>443</b>	<b>1813</b>	<b>6</b>

\* Flash Floods in Killa Saifullah, Musa Khel, Kohlu, Barkhan.

b. **Cumulative Report (14 June to date)**

Province /Region	Roads (km)	Bridges	Shops	Houses			Livestock
				PD	FD	Total	
AJ&K	0	0	10	122	229	351	746
Balochistan	690	18	0	15995	5547	21542	107,377
GB	2	52	0	175	283	458	0
ICT	0	0	0	0	0	0	0
KP	6.5	7	0	3917	1095	5011	328
Punjab	33	7	1	6392	5978	12371	13
Sindh	2135.4	45	32	27636	5149	32785	1976
<b>TOTAL</b>	<b>2866.9</b>	<b>129</b>	<b>43</b>	<b>54237</b>	<b>18281</b>	<b>72518</b>	<b>110,440</b>

3. **Road Blocked Last 24 Hours**

Province/ Rgn Wise	No of Road Blocked	Details of Road Network	Cause of Blockage	Restoration Status	Machinery/ Manpower Deployed
AJ&K	NTR				
Balochistan	2	N-25 Qta- Karachi	Lunda Bridge washed away	Diversion made for light traffic	Yes
			Kanta Bridge Washed away		
		M8	Landslide	Traffic ply though temporary track	
GB	1	Hisper valley road	Landslide	In progress	Yes
ICT	NTR				
KP	1	KKH at Achar Nullah	Flash Flood	Open for traffic	Yes
Punjab	NTR				
Sindh	NTR				

4. **Rescue & Relief Operations Since 14 June 2022**

Province/ Rgn Wise	No of affected District	Affected Population	No of Person Rescued	Persons in Relief Camp
AJ&K	10	2,000	40	0
Balochistan	34	360,000	600	7,000
GB	6	7360	4,800	180
KP	33	50,000	2015	2,964
Punjab	3	119,367	3009	4,696
Sindh	17	548,357	NR	365
<b>Total</b>	<b>103</b>	<b>1,087,654</b>	<b>10,464</b>	<b>15,205</b>

5. **Relief Provided by NDMA**

Province	Tent	Tarpaulin	Mosquito Nets	Blanket	Hygiene Kits	Kitchen Set	Food Packs	First Aid Kit	Generator	Chemical Spray Machine	Jerry Can	Sleeping Bag	De-watering Pumps	Life Saving Jacket
AJ&K	450	300	0	750	0	200	0	500	0	0	0	0	0	0
BLN	7850	16300	17800	13500	3000	3200	7500	5000	85	140	3000	1000	84	200
GB	550	700	0	500	0	400	0	700	0	0	0	0	0	0
ICT	15	15	0	0	0	0	0	0	0	0	0	0	2	0
KP	700	700	700	900	1000	700	500	500	0	0	0	0	0	0
PB	500	500	500	1000	500	500	400	500	0	0	0	0	0	0
SINDH	1750	1400	2000	1000	1000	1000	1000	500	15	20	2000	0	50	0
<b>Total</b>	<b>11815</b>	<b>19915</b>	<b>21000</b>	<b>17650</b>	<b>5500</b>	<b>6000</b>	<b>9400</b>	<b>7700</b>	<b>100</b>	<b>160</b>	<b>5000</b>	<b>1000</b>	<b>136</b>	<b>200</b>

6. **Relief Provided by PDMA**

Item	Tents	Blankets/ Quilt	Net Mosquito	Tarpaulin	Plastic Mats	Jerry Cane	Water tank/ Bottle/	Water Tanks/ filter	Water Cooler	Food Packs	Cooked Food	Gas Cylinders	Kitchen Set	First aid kits	Hygiene kit	Life Saving Jackets	Beds/ Chapai and accessories	Boats	De-watering pumps
AJ&K	116	34	0	161	56	0	9	0	0	35	0	0	9	35	0	0	0	0	0
BLN	21815	10580	13330	13860	4600	8350	31050	105	9700	31362	0	7620	6170	160	950	167	100	6	26
GB	465	212	50	100	384	0	0	0	0	520	0	0	77	0	0	0	220	0	0
KP	1447	503	653	497	722	125	0	0	0	818	0	119	885	0	645	0	403	0	0
Punjab	3300	0	200	0	666	0	5	0	0	40000	0	0	0	0	0	0	0	0	0
Sindh	24030	0	77,975	2060	1950	7080	0	39	110	9850	45	0	3110	0	0	50	3120	20	124
<b>Total</b>	<b>51173</b>	<b>11329</b>	<b>92,208</b>	<b>16678</b>	<b>8378</b>	<b>15555</b>	<b>31064</b>	<b>144</b>	<b>9810</b>	<b>82585</b>	<b>45</b>	<b>7739</b>	<b>10251</b>	<b>195</b>	<b>1595</b>	<b>217</b>	<b>3843</b>	<b>26</b>	<b>150</b>

7. **Relief Provided by Humanitarian Agencies**(a) **Last 24 hours**

S no	Province	District	Relief Items	Quantity	Organization
1	Balochistan	Noshki	Tents (No.)	155	Islamic Relief Pakistan
			NFIs (Kitchen Set No.)	155	
			Food Packs (No.)	107	
			Hygiene Kits (No.)	107	
		Lasbela	Food Packs (No.)	200	Hands
2	Punjab	Rajanpur	Food Packs (No.)	150	

(b) **Cumulative Relief by Humanitarian Agencies**

S#	Relief Items	Punjab	Sindh	KP	BLN	Total	Maj cntbr
1	Food Packs (No)	1,427	501	700	19,970	22,598	Nestle Pk, WHO, KORT Relief, PRCs, Penny Appeal, Helping Hands (HHRD), IRC, IRP, Muslim Hands, Muslim Aid, UAE Red Crescent
2	Cooked Food (Nos.)	16,979	9,580	2,250	3,110	31,919	
4	Drinking Water (Litre)	11,741	1,545	300	67,390	80,976	
5	Tents (No)	-	-	-	1,013	1,013	
6	Shelter Kits (No)	-	-	-	1,800	1800	
7	Dewatering Pumps (No)	3	5	-	-	8	
8	Water Filtration / Purification Plant (No)	-	-	2	6	8	
9	Hygiene Kits (No)	160	650	900	5,427	7,137	
10	Medical Support (Persons)	871	2,482	-	7,160	10,513	
11	Medicine (No)	-	-	-	134,691	134,691	
12	Aqua Tabs (No)	-	-	-	200,000	200,000	
13	Jerry Cans (No)	-	100	1,800	-	1900	
14	NFIs (No.)	529	652	131	3,316	4,628	

- WHH – food packages (1500 HH), Shelter Kits 300 (300 HH), 250 Agri package (seeds, fertilizer, basic eqpt)
- Save the Children - Shelters /Hygiene kits/ food packs (1000 HH each), Med sp (35000 patients)
- All Pak Chinese Enterprise Association - 10 M PKR donation.
- US Govt announcing 1,50,000 USD to GoB.

8. Dams and Reservoirs Levels

Reservoirs	Max Conservation Level & Storage		Today's Level		Remaining Level & Storage	
			Current Level & Storage			
	Feet	(MAF)	Feet	(MAF)	Feet	(MAF)
Tarbela	1,550.00	5.827	1547.20	5.666	2.8	0.1616
Mangla	1,242.00	7.356	1171.95	2.762	70.05	4.94
Chashma	649.00	0.278	640.3	0.029	8.7	0.249

MAF - Million Acre Feet

**Authority:** FFC's Daily Weather & Flood Situation Report dated 16<sup>th</sup> August 2022.

9. Flood Alert / River Flows.

- River Chenab at Khanki & Qadirabad is in medium flood level.
- River Indus at Chashma, Taunsa, Guddu, Sukkur, Kotri and River Chenab at Marala are in low flood level.
- Moderate flash flooding is expected in the Tributaries of Rivers Kabul & Indus during next 24-hours.
- Severe flash flooding is also expected in the Hill Torrents of D.G. Khan Division along with Rivers/Nullahs of Balochistan during 17<sup>th</sup> to 19<sup>th</sup> August, 2022. Flows from Hill Torrents of D.G. Khan Division from 17<sup>th</sup> August, 2022 may cause Medium to High Level Flooding in River Indus at Taunsa, Guddu & Sukkur. Urban Flooding is also expected in Sindh during 16<sup>th</sup> to 19<sup>th</sup> August, 2022.

Structures	Designed Capacity	Historic Peak Floods experienced to-date*		Last Year Flow		Today Actual Flow with Flood Classification			Comparative Danger (VHF) Classification
		Discharge	Date	Inflow	Outflow	Inflow	Outflow	Flood Classification*	
1	2	3	4	5	6	7	8	9	10
<b>River Indus</b>									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	172,000	106,000	296,000	218,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	159,000	151,000	235,000	229,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	192,000	183,000	278,000	261,000	Low Flood (F)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	161,000	133,000	291,000	291,000	Low Flood (F)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	128,000	96,000	296,000	293,000	Low Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	86,000	38,000	250,000	228,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	89,000	54,000	213,000	203,000	Low Flood (S)	650,000
<b>River Kabul</b>									
• Warsak	540,000				26,000		39,000	Normal	200,000
• Nowshera		450,000	29-07-2010		43,000		56,000	Normal	200,000
<b>River Swat</b>									
• Chakdara Bridge		360,000	30-07-2010		11,000		16,000	Normal	150,000
• Munda( H. Works)		355,000	29-07-2010		11,000		10,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		6,000		10,000	Normal	100,000
<b>River Jhelum</b>									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	35,000	16,000	40,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	23,000	20,000	12,000	NIL	Normal	225,000
<b>River Chenab</b>									
• Marala	1,100,000	1,100,000	26-8-1957	56,000	21,000	156,000	144,000	Low Flood (F)	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	27,000	20,000	173,000	167,000	Med Flood (F)	400,000
• Qadirabad	900,000	948,530	11-9-1992	23,000	3,000	182,000	166,000	Med Flood (R)	400,000
• Trimmu	875,000	943,225	08-7-1959	19,000	7,000	106,000	97,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	17,000	1,000	47,000	38,000	Normal	450,000
<b>River Ravi</b>									
• Jassar	275,000	680,000	05-10-1955		5,000		31,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		9,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	33,000	5,000	32,000	6,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	18,000	1,000	21,000	9,000	Normal	90,000
<b>River Sutlej</b>									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	3,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	2,000	1,000	Normal	175,000

**Authority:** FFC Daily Weather & Flood Situation Report dated 16<sup>th</sup> August 2022.

10. Daily Flood / Base Flow Data Obtained from India.

Ser	Dam	Full Reservoir Level	Live Storage Capacity at FRL	Current Live Storage (MAF)	Current Level	Inflow	Outflow
a.	Bhakra Dam River Sutlej	1680	5.050	2.824 (11 <sup>th</sup> Aug)	1635.94	50,747	19,227
b.	Pong Dam River Beas	1390	4.991	2.581 (11 <sup>th</sup> Aug)	1356.70	62,693	9,009
c.	Thein Dam River Ravi	1732	1.900	1.370 (11 <sup>th</sup> Aug)	1704.44 (11 <sup>th</sup> Aug)	Not Available	Not Available

**Authority:** Ministry of Water Resources, Office of PCIW report of 14<sup>th</sup> August 2022.

11. Summary Pre- Monsoon and Monsoon Spells Till 16<sup>th</sup> Aug 22

Provinces/ Region	30 Years Average (mm)	Rainfall Monsoon-22 (mm)	Departure (%)
Pakistan	117.5	297.7	153.36
AJ&K	324.3	330.6	1.94
Balochistan	55	209.5	280.91
Gilgit Baltistan	33.1	49.5	49.55
Khyber Pakhtunkhwa	206.6	233.9	13.21
Punjab	189.6	341.7	80.22
Sindh	106.5	349.6	

12. Rainfall Last 24 Hours

Stations	Rainfall (mm)
<b>Sindh</b>	
Padidan	110
Sakrand	38
Dadu	37
Mohenjodharo	27
Tharparkar	(Chachro 20 & Mithi 05)
Tando Jam	15
Larkana	10
Badin	07
Karachi	(Quaidabad, Korangi 05, DHA 04, Masroor Base, Kemari, Faisal Base 02, Surjani, Orangi, University Road, Old Area (A/P) 01, Jinnah Terminal, Nazimabad, North Karachi Trace)
Hyderabad	(City 03 & A/P 01)
Chhor	02
Shaheed Benazirabad, Thatta & Sukkur	01
<b>Punjab</b>	
Lahore	(Johar Town 66, Airport 40, Gulshan Ravi 18, Samanabad, Tajpura 11, Upper Mall 09, Mughalpura, Wasa 07, Iqbal Town, Chowk Nakhuda, Farukabad 06, Nishtar Town, Lakshmi Chowk 05, Shahi Qila 04 & City 03)
Rawalpindi	(Shamsabad 42, Kachehri 31, Chakdala 23)
Sialkot	(City 32 & A/P 01)
Multan	(A/P 30 & City 04)
Islamabad	(Golra 24, Z/P 20, Bokra 18, Saidpur 08 & Airport 07)
Faisalabad	21
Khanewal	05
Attock	03
Bahawalpur	(City 02 & A/P Trace)
Gujrat & Murree	01
Dera Ghazi Khan	(Zain Sanghar Nullah & Fort Munro Trace)
Narowal, Okara, R Y Khan, Sahiwal & Hafizabad	Trace

<b>Balochistan</b>	
Panjgur	25
Zhob	11
Khuzdar	07
Dalbandin	04
Kalat	03
Turbat & Loralai	02
Gawadar & Ziarat	01
<b>Khyber-Pakhtunkhwa</b>	
Dir	(Upper 23)
Bannu	18
Kalam	14
Pattan	12
Tirah Khyber	11
Parachinar	09
Mirkhani	08
Kakul & Pashat Bajur	06
Balakot & Bunner	05
Cherat, Mamad Gut & Drosh	04
Chitral	03
Saidu Sharif	02
Mardan	01
Peshawar, Khar Bajur & Mohammad Dam	Trace
<b>Kashmir</b>	
Garhidupatta	20
Rawalakot	15
Muzaffarabad	(City 08 & A/P 07)
Chakothei	06
Dhulli & Haraman	02
Bandi Abbaspur & Chattar Kalas	01
Barnala	Trace
<b>Gilgit-Baltistan</b>	
Gupis & Bagrote	05
Babusar & Gilgit	Trace

**Authority:** PMD Daily Weather & Flood Situation Report dated 16<sup>th</sup> August 2022.

13. **Weather Forecast for next 24 hours by PMD.** Scattered to widespread thunderstorm/rain of moderate to heavy intensity with isolated very heavy falls is expected over Sindh. Scattered thunderstorm/rain of moderate intensity with isolated heavy falls is expected over the Upper catchments of all the Major Rivers along with Eastern & Coastal Balochistan, Islamabad and Peshawar, Kohat , Bannu, D.I. Khan, D.G. Khan, Rawalpindi, Sargodha & Gujranwala Divisions. Isolated thunderstorm/rain is expected over rest of the country.

14. **Weather Alert / Advisory / Press Release.** Pakistan Meteorological Department (PMD) has informed that a depression has developed in Arabian Sea which is likely to move west along Makran Coast. Due to this weather system monsoon currents are continuously penetrating southern parts of the country and another low pressure area is likely to approach Sindh on 16 August, under the influence of this system, following is expected: -

**a. Islamabad Capital Territory**

- Rain-wind / thundershowers **with a few heavy falls** expected in Islamabad with occasional gaps from **14-16 August (Sunday to Tuesday)**.

Balochistan



- Rain-wind / thundershowers **with a few heavy falls** expected in Balochistan with occasional gaps from **14-16 August (Sunday to Tuesday)**.
  - Widespread rain-wind / thundershowers **with scattered heavy to very heavy falls** expected in Balochistan with occasional gaps from **16-18 August (Sunday to Thursday)**.
- b. **Khyber Pakhtunkhwa**
- Rain-wind / thundershowers **with a few heavy falls** expected in Khyber Pakhtunkhwa with occasional gaps from **14-16 August (Sunday to Tuesday)**.
- c. **Punjab**
- Rain-wind / thundershowers **with a few heavy falls** expected in Punjab with occasional gaps from **14-16 August (Sunday to Tuesday)**.
- d. **Sindh**
- Rain-wind / thundershowers **with a few heavy falls** expected in Sindh with occasional gaps from **14-16 August (Sunday to Tuesday)**.
  - Widespread rain-wind / thundershowers **with scattered heavy to very heavy falls** expected in Sindh with occasional gaps from **16-18 August (Sunday to Thursday)**.
- e. **Gilgit Baltistan**
- Rain-wind / thundershowers **with a few heavy falls** expected in Gilgit Baltistan with occasional gaps from **14-16 August (Sunday to Tuesday)**.
- f. **Azad Jammu & Kashmir**
- Rain-wind / thundershowers **with a few heavy falls** expected in AJ&K with occasional gaps from **14-16 August (Sunday to Tuesday)**.



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