



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

Dated: 18th August 2022Subject: **NDMA Monsoon 2022 Daily Situation Report No 066**

NDMA Monsoon 2022 Daily Situation Report No 066, covering period from 1300 hours on 17th August 2022 to 1400 hours 18th August 2022 is enclosed for information / necessary action, please.

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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
 Military Operation Directorate (MO-4), GHQ, Rawalpindi
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 Director (SOF & Marines), Naval Headquarters, Islamabad
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ID: APS to Member (Ops), NDMA
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 Director (P&IC), NDMA
 Director (Admin), NDMA
 Director (Finance), NDMA
 Director (Media & IT), NDM
 APS to Chairman, NDM

1. Deaths/ Injureda. Last 24 Hours

Province /Region	Deaths				Injured				Remarks
	M	F	C	T	M	F	C	T	
AJ&K	5			5	2			2	Due to torrential rain in Ratti Gali (details to follow).
Balochistan		3	3	6					<ul style="list-style-type: none"> • Due to flash flood, 3x females & 2x children in Pishin • Due to house collapse, 1x child in Harnai
GB	NTR								
ICT									
KP	1		2	3	7	3	3	13	<u>Deaths</u> <ul style="list-style-type: none"> • Due to roof collapse, 1x male & 1x child in Swat • Due to flash flood, 1 x child in DI Khan <u>Injuries- Due to Roof Collapse</u> <ul style="list-style-type: none"> • 7x Males in Swat • 3x Females in Swabi • 2x Children in Khyber & 1x child in Swat
Punjab		3		3	5	3		8	<u>Due to Roof Collapse</u> <u>Deaths</u> <ul style="list-style-type: none"> • 3x females in Bahawalnagar <u>Injures</u> <ul style="list-style-type: none"> • 3x males in Bhakkar, 1x male each in Multan & Layyah • 2x females in Layyah & 1x female in Bhakkar
Sindh	1	3	4	8	39	12	24	75	<ul style="list-style-type: none"> • Deaths reported from MPK and Sukkur due to roof collapse • Injures reported from TMK, SBA, KSK & Jamshoro by Dte Gen Health & respective Commissioners
Total	7	9	9	25	53	18	27	98	

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

Province /Region	Deaths				Injured			
	M	F	C	T	M	F	C	T
AJ&K	21	12	1	34	12	6	1	19
Balochistan	96	48	58	202	49	12	20	81
GB	2	4	3	9	1	0	3	4
ICT	1	0	0	1	0	0	0	0
KP	34	25	76	135	44	57	60	161
Punjab	65	40	39	144	133	94	63	290
Sindh	60	19	70	149	309	129	135	573
Total	279	148	247	674	548	298	282	1128

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

Province /Region	Roads (km)	Bridges	Shops	Houses			Livestock
				PD	FD	Total	
AJ&K	NTR	5 [^]	NTR	3	6	9	
Balochistan		790		360	1150		
GB		0		0	0		
ICT		0		0	0		
KP		48		20	68	9	
Punjab		5		0	0		
Sindh		1256		275	1531		
TOTAL				5		2102	661

[^] Foot bridges

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

Province /Region	Roads (km)	Bridges	Shops	Houses			Livestock
				PD	FD	Total	
AJ&K	0	5	10	134	239	373	746
Balochistan	690	18	0	16785	5907	22692	107,377
GB	2	52	0	200	303	503	0
ICT	0	0	0	0	0	0	0
KP	6.5	7	0	3996	1115	5111	337
Punjab	33	7	1	6397	5978	12376	13
Sindh	2135.4	45	32	29149	5430	34579	2000
TOTAL	2866.9	134	43	56661	18972	75634	110,473

3. **Road Blocked Last 24 Hours**

Province/ Rgn Wise	No of Road Blkd	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	Traffic plying through diversion	Yes
			Kanta Bridge Washed away		
		M8	Landslide	Traffic plying through diversion	
GB	5	Hisper Valley Road	Landslide	In progress	Yes
		Chispuran and Shimshal Valley Road	Road erosion flash flood	In progress	
		Budalas, Chalt, Bar Roads	Debris flow	In progress	
		Babusar Road	Flash Flood	Open for light to medium traffic	
		Naltar Raod	Flash Flood	In progress	
ICT	NTR				
KP	2	KKH at Achar Nullah	Flash Flood	Open for light to medium traffic through diversion	Yes
		Buttle Bridge washed away b/w Kaghan and Naraan	Flash Flood		
		Daraban – Chodwan	Flash Flood	In progress	
		Darosh – Madaklsht	Flash Flood	In progress	
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	0	0	142	0
Balochistan	31	360,000	600	7,000
GB	0	0	7943	2
KP	8	50,000	2015	2,964
Punjab	3	119,367	7,665	4500
Sindh	9	548,357	NR	365
Total	51	1,087,084	18,365	14,831

5. **Relief Provided by NDMA**

S No	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
5	AJ&K	450	300	-	750	-	200	-	500	-	-	-	-	-	-
1	BLN	7850	16300	17800	13500	3000	3200	7500	5000	85	140	8000	1000	84	200
6	GB	550	700	-	500	-	400	-	700	-	-	-	-	-	-
2	KP	700	700	700	900	1000	700	500	500	-	-	1000	-	-	-
7	ICT	15	15	-	-	-	-	-	-	-	-	-	-	2	-
3	PB	650	500	500	1000	500	500	400	500	-	-	-	-	-	-
4	SINDH	1750	1400	2000	1000	1000	1000	1000	500	15	20	2000	-	50	-
TOTAL		11965	19915	21000	17650	5500	6000	9400	7700	100	160	11000	1000	136	200

6. **Relief Provided by PDMA**

Item	Tents	Blankets/ Quilt/ Sleeping Bags	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	11	0	0
Blh	22515	10580	13330	13860	4600	8350	31050	105	9700	32062	0	7620	6170	160	950	167	100	6	26
GB	661	347	0	0	550	0	0	0	0	581	0	0	137	0	0	0	302	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	28775	0	83475	2260	1950	7080	39	0	110	11100	45	0	3110	0	0	50	3120	20	134
Total	56814	11464	97658	16778	8544	15555	31103	105	9810	84596	45	7739	10311	195	1595	217	3936	26	160

7. Relief Provided by Humanitarian Agencies

(a) Last 24 hours

S #	Province	District	Relief Items	Quantity	Organization
1	Balochistan	Noshki and Killa Saifullah	Tents (No.)	75	Qatar Charity
			Food Packs (No.)	1275	
		Quetta and Noshki	Cash @ 20,000 (PKR)/ families	890	Islamic Relief Pakistan
			NFIs (Kitchen Sets, Family tents and food Packs)	890	
		Jhal Magsi	Multi-purpose Cash grants @12,000 PKR / families	1,200	Concern Worldwide
2	Punjab	Rajanpur	Multi-purpose Cash grants @12,000 PKR / families	2,000	

(b) Cumulative Relief by Humanitarian Agencies

S#	Relief Items	Punjab	Sindh	KP	Bltn	Total	Maj cntbr
1	Food Packs (No.)	1,427	501	700	21,245	23,873	Nestle Pk, WHO, KORT Relief, PRCs, Penny Appeal, Helping Hands (HHRD), IRC, IRP, Muslim Hands, Muslim Aid, UAE Red Crescent
2	Cooked Food (No.)	17,879	9,580	2,250	3,710	33,419	
4	Drinking Water (Litre)	17,741	1,545	300	71,390	90,976	
5	Tents (No.)	-	-	-	1,088	1,088	
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	4,206	5,518	
15	Cash (families)	2,000	-	-	8,840	10,840	

- UAE Red Crescent – 1000 Food Packs, 250 Tents for Lasbela, Kharan & Washuk (to be dispatched on 18th Aug 2022)
- WHH – food packages (1100 HH), shelter kit 270 HH, water filtration 1100 (300 HH), 270 Agri package (seeds, fertilizer, basic eqpt)
- All Pak Chinese Enterprise Association - 10 M PKR donation
- US Govt announcing 1,00,000 USD to GoB
- Save the Children - Shelters /Hygiene kits/ food packs(1000 HH each), Med sp (35000 patients)

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	1548.70	5.752	1.3	0.065
Mangla	1,242.00	7.356	1173.90	2.862	67.1	4.048
Chashma	649.00	0.278	640.5	0.032	10	0.246

MAF - Million Acre Feet

Authority: FFC's Daily Weather & Flood Situation Report dated 17th August 2022.9. **Flood Alert / River Flows.**

- Rivers Indus at Taunsa (Rising) & River Kabul at Nowshera are in medium flood level while River Indus at Tarbela, Kalabagh, Chashma, Guddu & Sukkur is in low flood level.
- Severe flash flooding is expected in the Hill Torrents of D.G. Khan Division along with Rivers/Nullahs of eastern Balochistan during 18th to 19th August, 2022.
- Flows from Hill Torrents of D.G. Khan Division may cause medium to high level flooding in River Indus at Taunsa, Guddu & Sukkur.
- Severe urban flooding is also expected in Sindh on 18th August, 2022.
- Wet spell may cause severe flash flooding in Rivers/ Nullahs of Balochistan & hill torrents of DG Khan Division on 19th August 2022. Flows from hill torrents of DG Khan Division may cause medium to high level flooding in river Indus at Nowshera & tributaries of Rivers Kabul & Indus from 21st to 23rd 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 n*	
1	2	3	4	5	6	7	8	9	10
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	118,000	143,000	302,000	284,000	Low Flood (S)	650,000
• Kalabagh	950,000	950,000	14-7-1942	144,000	137,000	271,000	266,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	181,000	167,000	383,000	368,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	161,000	133,000	439,000	439,000	Med Flood (R)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	121,000	90,000	330,000	330,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	83,000	32,000	326,000	322,000	Low Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	45,000	9,000	177,000	177,000	Normal	650,000
River Kabul									
• Warsak	540,000				20,000		42,000	Low Flood (R)	200,000
• Nowshera		450,000	29-07-2010		28,000		83,000	Med Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		16,000	Normal	150,000
• Munda(H. Works)	150,000	355,000	29-07-2010		6,000		21,000	Normal	150,000
• Charsadda Road		360,000	30-07-2010		6,000		21,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	21,000	15,000	35,000	9,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	15,000	12,000	6,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	41,000	6,000	94,000	82,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	11,000	4,000	94,000	87,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	10,000	NIL	99,000	83,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	22,000	9,000	116,000	108,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	15,000	NIL	94,000	87,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		4,000		23,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		21,000		19,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	3,000	51,000	25,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	NIL	18,000	11,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	15,000	7,000	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 18th 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 th Aug)	1637.95	52,353	20,355
b.	Pong Dam River Beas	1390	4.991	2.581 (11 th Aug)	1357.52	29,487	10,009
c.	Thein Dam River Ravi	1732	1.900	1.370 (11 th Aug)	1704.44 (11 th Aug)	Not Available	Not Available

Authority: Ministry of Water Resources, Office of PCIW report of 15th August 2022.

11. **Summary Pre- Monsoon and Monsoon Spells Till 18th Aug 22**

Provinces/ Region	30 Years Average (mm)	Rainfall Monsoon-22 (mm)	Departure (%)
Pakistan	57.1	111.6	95.45
AJ&K	158.2	177.8	12.39
Balochistan	26.2	71.5	172.90
Gilgit Baltistan	20.4	40.5	98.53
Khyber Pakhtunkhwa	105.2	129.9	23.48
Punjab	90.1	147	63.15
Sindh	50.8	189.3	272.64

12. **Rainfall Last 24 Hours**

City/Observatory	Rainfall (mm)
Punjab	
Bhakkar	166
Layyah	128
DG Khan	104
Bahawalpur	58
Kot Addu	51
Attock	43
Noorpur Thal	42
Multan	37
Bahawalnagar	32
Kamra & Joharabad	24 (each)
Bhandu Wala	22
Khanpur	21
T.T. Singh	17
Shorkot	14
Khanewal	13
Murree	11
Islamabad & Sargodha	10
Jhang & Sahiwal	09 (each)
Sindh	
Chhor	131
Moin-Jo-Daro	104
Karachi	102
Tando Jam	99
Larkana	78
Badin	70
Mithi	67
Khairpur	62
Thatta	61
Padidan, Hyderabad & Sukkur	54 each
Mirpur Khas	49

City/Observatory	Rainfall (mm)
Sakrand	45
Shaheed Benazirabad	35
Jacobabad	22
Dadu	19
Rohri	12
Sargodha & Islamabad	10 each
Balochistan	
Barkhan	40
Zhob	24
Lasbela	22
Pishin	21
Kalat	18
Khyber Pakhtunkhwa	
D.I.Khan	66
Cherat	54
Risalpur	41
Peshawar	29
Kohat & Pashat-Bajaur	24 each
Bannu	23
Mamad Gut, Khaar-Bajaur & Phulra	16 each
Tarbela	14
Tirah-Khyber & Kakul	11 each
Landi Kotal & Parachinar	10 each
Gilgit-Baltistan	
Chilas	10
Bunji	09
AJ&K	
Kotli	28
Palandri	20
Rawalakot	08

Authority: PMD Daily Weather & Flood Situation Report dated 18th August 2022.

13. **Weather Forecast for next 24 hours by PMD.** Widespread thunderstorm/rain with heavy to very heavy falls at scattered places and extremely heavy falls at isolated places is expected over Sindh & eastern Balochistan. Scattered to widespread thunderstorm/rain of moderate to heavy intensity with isolated very heavy falls is expected over Bahawalpur, D.G. Khan, Multan, Sargodha & D.I. Khan Divisions. Isolated thunderstorm/rain of moderate intensity is expected over rest of the country.

14. **Weather Alert / Advisory / Press Release**

- a. Met Office informed that the monsoon low-pressure area persists over eastern Sindh and adjoining west Rajasthan(India).Under the influence of this weather system:
- Widespread Rain-thunderstorms with scattered heavy /very heavy falls (extremely heavy at times) & accompanied with occasional strong winds likely to occur in Shaheed Benazirabad, Noshero Feroz, Khairpur, Sukkur, Larkana, Ghotki, Kashmore, Shikarpur, Jacobabad, Dadu, Jamshoro, Kambar Shahdadkot , Tharparker, Umerkot, Mirpurkhas, Badin, Tando Muhammad khan, Tando Allayar, Hyderabad, Matiari, Thatta, Sujawal, Sanghar distts & Karachi division till **19 August**.
 - Widespread Rain-wind/thunderstorms with scattered heavy /very heavy falls (extremely heavy at times) also expected in Lasbella, Khuzdar, Jhal Magsi, Jahfarabad, Nasirabad, Kohlu, Zhob, Pishin,Qilla Saifullah, Barkhan, Musakhel, Chaman, Loralai, Ziarat, Quetta,

Mastung, Kalat, Panjgur, Kharan, Nushki, Awaran and Turbat **from today to 21 August.**

- The continuing wet spell over northeastern & southern districts of Balochistan to become intense during **18-20 August** which may trigger flash flooding in Dadu, Jamshoro, Kambar Shahdadkot districts & downstream.

b. **Impacts:**

- Heavy falls may create water-logging/urban flooding in low lying areas of Karachi, Hyderabad, Badin, Thatta, Sujawal, Umarkot, Mirpurkhas, Sanghar, Tando Muhammad Khan, Tando Allayar, Dadu, Jamshoro, Noshero Feroz, Shaheed Benazirabad, Kambar Shahdadkot, Larkana & Sukkur districts today & tomorrow.
- Heavy falls may trigger flash flooding/hill torrents in local nullahs of Zhob, Pishin, Chaman, Qilla Saifulla, Loralai, Jhal Magsi, Jafarabad, Nasirabad, Ziarat, Pishin, Khuzdar, Musakhel, Lasbella, Kalat, Quetta, Mastung and Ziarat during the forecast period.
- Persistent heavy rains over Khuzdar, Lasbella and Hub distts of Balochistan & over Kirthar Range may create extra pressure on Hub dam, Thaddo dam & downstream nullahs.



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