



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



Dated: **22nd August 2022**

Subject: **NDMA Monsoon 2022 Daily Situation Report No 070**

NDMA Monsoon 2022 Daily Situation Report No 070, covering period from 1300 hours on 21st August 2022 to 1400 hours 22nd August 2022 is enclosed for information / necessary action, please.

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To: Secretary to Prime Minister, Prime Minister's Office, Islamabad
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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
 Arms Branch, Engineers Directorate, GHQ, Rawalpindi
 Director (SOF & Marines), Naval Headquarters, Islamabad
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ID: APS to Member (Ops), NDMA
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 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	1	1		2	1			1	Due to house collapse in poonch and Kotli
Balochistan	7	2	0	9	0	0	2	2	<ul style="list-style-type: none"> • Deaths • 3 x Males & 1 x female in Khuzdar • 2x Males, 1x Female and 1 x Child in Quetta • 1x Male in Killa Abdullah • Injured. 2x Children in Zhob
GB				0				0	NTR
ICT				0				0	
KP	6	3	8	17	-(2)	-(2)	13	9	<p>Due to Roof Collapse</p> <ul style="list-style-type: none"> • Deaths • 1x Male in S.Waziristan • 1x Female & 1x Child in DI Khan • 2x Children in Bajaur • 1x Child in Khyber • Injured. 2x Children in Khyber <p>Reconciliation of Data</p> <ul style="list-style-type: none"> • Deaths. 5x Males, 2x Females and 4x children data has been added • Injured. 11x Children added and 2x females, 2 x males figures are reduced
Punjab				0				0	NTR
Sindh	5	2	8	15				0	<p>Due to Roof Collapse</p> <ul style="list-style-type: none"> • Deaths • 2x Males 2x Females & 5x Children in Larkana • 3x Males & 2x Children in SBA • 1x Female & 1x Child in Sukker
Total	18	7	16	41	-(2)	-(2)	15	11	

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

Province /Region	Deaths				Injured			
	M	F	C	T	M	F	C	T
AJ&K	24	13	0	37	14	6	0	20
Balochistan	105	55	65	225	52	11	32	95
GB	2	4	3	9	1	0	3	4
ICT	1	0	0	1	0	0	0	0
KP	49	31	86	166	50	58	87	195
Punjab	72	40	39	151	136	100	64	300
Sindh	85	35	111	231	401	156	144	701
Total	338	178	304	820	654	331	330	1315

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

Province /Region	Roads (km)	Bridges	Shops	Houses			Live-stock
				PD	FD	Total	
AJ&K				3	7	10	
Balochistan				0	0	0	
GB				4	3	7	
ICT				0	0	0	
KP				158	783	941*	46
Punjab				5742	1353	7095	0
Sindh				102630	32331	134961^	627
TOTAL	0	0	0	108537	34477	143014	673

Note: PD- Partially Damaged, FD- Fully Damaged

^ Concerned DC, Sindh

* 816x Houses reported damaged in last 24 hrs. 125x Houses have been added as data reconciliation.

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

Province /Region	Roads (km)	Bridges	Shops	Houses			Livestock
				PD	FD	Total	
AJ&K	0	0	17	143	250	393	765
Balochistan	710	18	0	19400	7167	26567	500000
GB	2	52	0	204	306	510	0
ICT	0	0	0	0	0	0	0
KP	6.5	7	0	6721	7276	13997*	659
Punjab	33	7	1	16954	10943	27897	13
Sindh	2135.4	45	32	180678	69408	250086	2884
TOTAL	2886.9	129	50	224100	95350	319450	504,321

3. **Road Blocked Last 24 Hours**

Province/ Rgn Wise	No of Road	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	Open for light traffic	Yes
		M8	Land sliding	Open for light traffic	
GB	4	Hisper Valley Road	Land slide	In progress	Yes
		Shimshal Road	Rock fall	In progress	
		Mujawir road at Ishkoman (Immit valley)	Flash Flood	In progress	
		Hoper road at Ghizar	Bridge damaged due to Flash Flood	In progress	
ICT	NTR				
KP	-	N- 50 at Daraban	Flash Flood	Open for LTV, Medium veh and fuel tankers	Yes
		Parova road			
		Garra Rehman			
		KKH at Auchar Nullah			
Punjab	NTR				
Sindh	NTR				

4. **Joint Survey/ Damage assessment Flood Affected Areas.** Provincial coordination team of NDMA has reached Balochistan.

5. **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	200 x Families (1000 approx)
Punjab	16	269,896	8185	3194
Sindh	17	1,600,199	0	45,207
Total	116	2,289,455	2,289,571	56,681

6. **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
1	BLN	7850	16300	17800	13500	3000	3200	12500	5000	85	140	8000	1000	84	200
2	KP	850	850	850	900	1150	850	1000	500	5	-	1000	-	5	-
3	PB	1650	1500	1500	1000	500	500	900	500	-	-	1000	-	20	50
4	SINDH	11050	3600	4200	1000	1000	1200	5000	500	15	20	2000	-	85	100
5	AJ&K	450	300	-	750	-	200	-	500	-	-	-	-	-	-
6	GB	550	700	-	500	-	400	-	700	-	-	-	-	-	-
7	ICT	15	15	-	-	-	-	-	-	-	-	-	-	2	-
TOTAL		22415	23265	24350	17650	5650	6350	19400	7700	105	160	12000	1000	196	350

7. **Relief Provided by PDMA**

Item	Tents	Blankets/ Quilt/ Sleeping Bags	Net Mosquito/ animal	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	Boats	De-watering pumps
AJ&K	116	34	0	161	56	9	9	0	0	35	0	0	9	35	0	0	11	0	0
Bln	27315	11280	14580	15610	5900	8350	31050	125	9950	32992	0	8110	7120	260	1750	187	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	24706	1000	200	0	10800	0	5	0	0	18570	0	0	0	0	0	0	0	0	0
Sindh	75900	0	143231	24710	1950	10,880	39	0	110	17150	45	0	3610	0	0	150	3620	36	153
Total	108739	12164	158664	40978	9844	19,355	31103	125	10060	91576	45	8229	11761	295	2395	337	4436	42	179

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

S no	Province	District	Relief Items	Quantity	Organization
1	Balochistan	Pishin	Tents (HH)	240	Save the Children
			Hygiene Kits (HH)	240	
			NFIs (HH)	240	
			Food Packs (HH)	500	
			NFIs (HH)	250	
		Qila Saifullah	Drinking Water (HH)	500	HANDS
		Quetta	Drinking Water (HH)	250	
Lasbela	Small Water Filtration Plant (No.)	2			
2	Sindh	Thatta	Food Packs (HH)	200	HANDS
		Karachi	Food Packs (HH)	150	

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

S#	Relief Items	Punjab	Sindh	KP	Bltn	AF	Total	Mjr cont
1	Food Packs (No.)	1,602	501	1,400	26,841*	35,972	66,316	Nestle Pk, WHO, KORT Relief, PRCs, Penny Appeal, Helping Hands (HHRD), IRC, IRP, Muslim Hands, Muslim Aid, UAE Red Crescent, Armed Forces, UNHCR
2	Cooked Food (No.)	18,054	9,580	2,250	3,710	-	33,594	
4	Drinking Water (Litre)	17,741	1,545	300	71,390	19,120	110,096	
5	Tents (No.)	-	-	-	1,878*	3,650	5,528	
6	Shelter Kits (No.)	-	-	-	1,800	-	1,800	
7	Dewatering Pumps (No.)	3	5	-	-	-	8	
8	Water Filtration / Purification Plant(No.)	-	-	2	6	2	10	
9	Hygiene Kits (No.)	160	650	900	5,887*	-	7,597	
10	Medical Support (Persons)	871	2,482	989	10,603	23,091	38,036	
11	Medicine (No.)	-	-	-	134,691	-	134,691	
12	Aqua Tabs (No.)	-	-	-	200,000	-	200,000	
13	Jerry Cans (No.)	-	100	1,800	-	-	1,900	
14	NFIs (No.)	529	652	695*	4,516*	-	6,392	
15	Cash (Beneficiaries)	2,000	-	-	8,840	-	10,840	

* Includes 540 tents, 874 NFI kits, 240 dignity kits & 500 food packs for Afghan Refugees

9. **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	1550	5.827	Nil	Nil
Mangla	1,242.00	7.356	1177.15	3.027	64.85	4.62
Chashma	649.00	0.278	642.0	0.058	7	0.22

MAF - Million Acre Feet

Authority: FFC's Daily Weather & Flood Situation Report dated 22nd August 2022.10. **Flood Alert / River Flows.**

- River Indus at Taunsa & River Kabul at Nowshera are in High flood level.
- River Indus at Guddu & Sukkur is in Medium Flood Level and at Tarbela, Kalabagh, Chashma & Kotri is in low flood level.
- **VERY HIGH TO EXCEPTIONALLY HIGH LEVEL FLOODING** is likely in the Hill Torrents of DG Khan Division and in Rivers/Nullahs of Eastern Balochistan from **23rd to 26th August, 2022**.
- Flows from Hill Torrents of DG Khan Division may rise Taunsa flows up to **HIGH TO VERY HIGH FLOOD** level from **23rd to 26th August, 2022**. Urban Flooding is also expected in Sindh during the same period.
- High to very High-level flooding is expected in River Kabul at Nowshera and Tributaries of Rivers Kabul & Indus.

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*	
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	124,000	93,000	257,000	241,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	138,000	131,000	269,000	264,000	Low Flood (R)	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	155,000	140,000	341,000	323,000	Low Flood (R)	650,000
• Taunsa	1,000,000	959,991	02-8-2010	163,000	141,000	551,000	551,000	High Flood (S)	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	128,000	97,000	483,000	483,000	Med Flood (R)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	87,000	35,000	418,000	418,000	Med Flood (R)	700,000
• Kotri	875,000	981,000	14-8-1956	31,000	NIL	247,000	247,000	Low Flood (R)	650,000
River Kabul									
• Warsak	540,000				17,000		64,000	Med Flood (S)	200,000
• Nowshera		450,000	29-07-2010		21,000		117,000	High Flood (R)	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		17,000	Normal	150,000
• Munda (H. Works)	150,000	355,000	29-07-2010		4,000		15,000	Normal	150,000
• Charsadda Road		360,000	30-07-2010		5,000		13,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	22,000	24,000	38,000	10,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	31,000	16,000	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	52,000	17,000	68,000	44,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	15,000	7,000	66,000	59,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	25,000	8,000	76,000	60,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	22,000	5,000	74,000	63,000	Normal	450,000

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*	
• Panjnad	865,000	802,516	17-8-1973	13,000	NIL	97,000	91,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		24,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		19,000		24,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	32,000	3,000	36,000	8,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	15,000	NIL	23,000	12,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	16,000	5,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	4,000	3,000	Normal	175,000

Authority: FFC Daily Weather & Flood Situation Report dated 22nd August 2022.

11. 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)	1635.94	50,747	19,227
b.	Pong Dam River Beas	1390	4.991	2.581 (11 th Aug)	1356.70	62,693	9,009
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 18th August 2022.

12. Summary Pre- Monsoon and Monsoon Spells Till 22th Aug 22

Provinces/ Region	30 Years Average (mm)	Rainfall Monsoon-22 (mm)	Departure (%)
Pakistan	126.6	338.7	167.54
AJ&K	350.4	348.5	-0.54
Balochistan	58	274.9	373.97
Gilgit Baltistan	35.1	67.7	92.88
Khyber Pakhtunkhwa	223	286.7	28.57
Punjab	205.1	386.8	88.59
Sindh	116.3	575.8	395.10

13. Rainfall Last 24 Hours

Stations	Rainfall (mm)
Sindh	
Larkana	157
Khairpur	99
Mohenjodaro	98
Sukkur	67
Rohri	59
Jacobabad	46
Padidan	40
Shaheed Benazir Abad	20
Dadu & Sakrand	3

Stations	Rainfall (mm)
Karachi	(MOS, Kemari & Gulshan-e-Hadeed Trace)
Badin	Trace
Punjab	
D G Khan	(Zain Sangar Nullah 46, Fort Munro 26, City 18, Bhandu Wala 06 & Vehova Trace)
Kot Addu	17
Bahawalpur	(City 02 & A/P Trace)
Multan	(A/P 01)
Balochistan	
Kalat	40
Bar Khan & Zhob	24
Quetta	(City 19)
Sibbi	10
Loaralai	Trace
Khyber-Pakhtunkhwa	
Kalam	20
Dir	(Upper 16 & Lower 02)
Mirkhani	9
Parachinar	6
Drosh & Malamjabba	5
Tirah Khyber	4
Saidu Sharif & Mamad Gut	2
Cherat, Pashat Bajur & Mohmad Dam	1
Chitral, Ghalanai, Landi Kotal, Bacha Khan (A/P), Peshawar, Mardan & Pattan	Trace
Gilgit-Baltistan	
Bagrote	10
Gupis	8
Babusar	5
Hunza	4
Gilgit	3
Kashmir	
Muzaffarabad	(City 02 & A/P 01)
Haraman & Chakothei	1

Authority: PMD Daily Weather & Flood Situation Report dated 22nd August 2022.

13. **Weather Forecast for next 24 hours by PMD.** Scattered thunderstorm/rain of moderate intensity with isolated heavy falls is expected over upper & southeast SINDH, Eastern BALOCHISTAN along with upper catchments of Rivers Kabul & Indus and Peshawar, Kohat, Bannu, DI Khan, DG Khan, Multan & Bahawalpur Divisions. Isolated thunderstorm/rain of light to moderate intensity is expected over rest of the country.

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

a. Met Office informed that a low pressure (LPA) over upper Sindh is likely to weaken during next 12 hours. Another low pressure (LPA) area is likely to approach Sindh from 23rd August. Due to this weather system monsoon currents are penetrating in upper and southern parts of the country. Under the influence of this weather system:

- Rain-wind/thundershower (with isolated heavy falls) is expected in northeastern parts of Balochistan from 19 th to 22nd August while, in Sindh on 19th/20th August with occasional gaps.
- Rain-wind/thundershowers (with isolated heavy falls) are expected at scattered places in Khyber Pakhtunkhuwa, Punjab, Kashmir and GilgitBaltistan from 20th to 23 rd August with occasional gaps.
- More rain-wind/thundershower (with few heavy falls) is expected in Sindh, south Punjab, south and northeastern Balochistan on 23 rd & 24 th August.

b. **Impacts:**

- Heavy Rains may generate urban flooding in Sukkur, Dadu, Larkana, Jaccobabad and Shaheed Benazirabad on 19 th / 20th August.
- Heavy Rains may generate urban flooding in Karachi, Hyderabad, Thatta, Badin, Mirpurkhas, Shaheed Benazirabad, Dadu and Sukkur on 23 rd & 24 th August.
- Flash flooding is expected in Qilla Saifullah, Loralai, Barkhan, Kohlu, Mosa Khel, Sherani, Sibbi, Bolan, Kalat, Khuzdar, Lasbella and hill torrents of Dera Ghazi Khan on 19 th/20 th and from 22nd to 24 th August.
- Heavy Rains may generate urban flooding in Rawalpindi/Islamabad, Bahawalpur, Multan, Faislabad, Lahore, Gujranwala, Peshawar, Nowshera and Mardan on 21st & 22nd August.
- Flash flooding is expected in local Nullahs of Islamabad/Rawalpindi, Abbottabad, Mansehra, Dir, Karak, Lakki Marwat, Bannu and Kashmir on 21 st & 22nd August.
- Rainfall may trigger landslidesin Kashmir, hilly areas of Khyber Pakhtunkhwa, Galiyat, Murree, Chillas, Diamir, Gilgit, Hunza, Astore, Ghizer and Skardu during the forecast period.
- Travelers and tourists are advised to remain cautious during the forecast period.
- Riverine flooding in Indus and its tributaries may occur during the forecast period.



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