Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Advisor/
Chairman, Federal Flood Commission

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FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
WEDNESDAY SEPTEMBER 07, 2022

Rivers Hydrological Situation:

Since September 02, 2022, **River Indus** at **Kotri Barrage** (the last control structure on River Indus before Arabian Sea) is experiencing "**High Flood**". It has fallen to **"Low Flood Category"** in its **Guddu-Sukkur Reach**. It is flowing with **"Normal Flows''** at rest of its control structures **(Tarbela, Kalabagh, Chashma & Taunsa)** alongwith other main Rivers of Indus River System (Jhelum, Chenab, Ravi & Sutlej). Main rivers inflows/outflows at important control structures at 0600 hours today, may be seen at **Annexure-I.**

Reservoirs Storage Position:

2. **Tarbela Reservoir** is being maintained at its **Maximum Conservation Level (MCL: 1550.00 feet)** since **August 28, 2022.** At present, water level in **Mangla Dam** is **1190.50 feet** against its **MCL: 1242 feet (48.91 %** storage still left). **Chashma Reservoir** is also being maintained at **648.60 feet (against MCL: 649.00 feet)** since **2nd September 2022**. Present Combined Live Storage of **Tarbela, Chashma & Mangla Reservoirs** is **9.843 MAF** (i.e. **73.12 %** of **13.461 MAF**) which is better than last year's figure of 9.143 MAF (67.92%). WAPDA Authorities and field formations of Sindh Irrigation Department are continuing with their strict vigilance in the reservoir/ barrage operations for continued effective river flood management.

Prevalent Meteorological Situation (Source: FFD, Lahore):

3. Trough of "**Westerly Wave**" earlier over Kashmir and adjoining areas has moved away in Eastwards direction with "**Weak Seasonal Low**" lies over Northwestern Balochistan. **Light Moist Currents** from Arabian Sea were penetrating into the upper parts of Pakistan upto 3000 feet at the reporting time today.

Next 24 hours Weather & Rainfall Forecast:

4. FFD, Lahore has predicted mainly dry weather over most parts of the country with isolated thunderstorm/rain over upper catchments of all the Major Rivers of Indus River System during the next 24 hours. No significant rainfall events has been reported by FFD, Lahore during past 24 hours except for Punjab (Lahore =31 mm & Bahawalnagar=08 mm).

Weather Outlook & Flood Forecast (8th to 14th September 2022):

5. A fresh **Wet Spell** of **Light to Moderate Intensity** is likely to start over the upper catchments of all the Major Rivers from **10th** to **14th September 2022**. The present **High Level Flooding** in **River Indus** at **Kotri** is likely to continue. (Ref: FFD, Lahore, Bulletin No. C-085/22).

Continued Precautionary Measures By Concerned Organizations:

6. All concerned organizations including field formations of **Irrigation Department Sindh** are continuing with their unhalted watch and patrolling of flood embankments especially those which are sustaining high water pressure. Prompt flood fighting as and when needed to protect flood protection infrastructures is also being exercised. Further they are advised to remain on **"High Alert",** take all necessary precautionary measures as per their respective flood fighting and Contingency Plans.

7. Managers of major reservoirs/barrages, in particular of Kotri Barrage are advised to continue with present river Indus flood discharge management for effective flood routing.

8. O/o Pakistan Commissioner for Indus Water (PCIW) is to ensure availability of more latest **Flood/ Base Flow Data** on **Indian Structures/ Reservoirs** on **Rivers Sutlej**, **Beas** and **Ravi** as these structures are approaching close to their Maximum Conservation Levels (MCLs) as the monsoon season is still ongoing.

9. All concerned organizations including **PDMAs/DDMAs** are also advised to remain **Fully Alert & Vigilant**, take timely actions on warnings issued by the concerned organizations to ensure safety of communities living in low lying areas, public & private property besides irrigation, drainage & flood protection infrastructure etc.

10. Pakistan Meteorological Department (PMD) is closely monitoring the present weather system over the country and is keeping all concerned fully informed through FFD, Lahore.

(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad
9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Chief Commissioner, ICT, Islamabad.
27. Chairman, Capital Development Authority, Islamabad.
28. Commissioner, Rawalpindi.
29. Secretary, Irrigation Department, Government of the Punjab, Lahore.
30. Secretary, Irrigation Department, Government of Sindh, Karachi.
31. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
32. Secretary, Irrigation Department, Government of Balochistan, Quetta.
33. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
34. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
35. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
36. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.

Distribution:

37. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
38. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
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41. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
42. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
43. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
44. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No.FC-I (31)/2022, Dated 07-09-2022

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ANNEXURE-I

Rivers and Reservoir Positions
September 07, 2022 at 0600 Hours

A. River Flow Situation:

(Discharge in Cusecs)

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
River Indus									
• Tarbela Reservoir	1,500,000	604,000	30-7-2010	103,000	160,000	166,000	155,000	Normal	650,000
• Kalabagh	950,000	950,000	14-7-1942	171,000	164,000	170,000	162,000	Normal	650,000
• Chashma Reservoir	950,000	1,036,673	01-8-2010	184,000	164,000	205,000	187,000	Normal	650,000
• Taunsa	1,000,000	959,991	02-8-2010	155,000	136,000	191,000	176,000	Normal	650,000
• Guddu	1,200,000	1,199,672	15-8-1976	100,000	71,000	211,000	208,000	Low Flood (F)	700,000
• Sukkur	900,000	1,161,000	16-8-1976	81,000	30,000	323,000	323,000	Low Flood (F)	700,000
• Kotri	875,000	981,000	14-8-1956	26,000	NIL	604,000	584,000	High Flood (S)	650,000
River Kabul									
• Warsak	540,000				14,000		21,000	Normal	200,000
• Nowshera		450,000	29-07-2010		30,000		48,000	Normal	200,000
River Swat									
• Chakdara Bridge		360,000	30-07-2010		9,000		11,000	Normal	150,000
• Munda(H. Works)		355,000	29-07-2010		3,000		13,000	Normal	150,000
• Charsadda Road	150,000	360,000	30-07-2010		3,000		16,000	Normal	100,000
River Jhelum									
• Mangla Reservoir	1,060,000	1,090,000	10-9-1992	13,000	39,000	20,000	8,000	Normal	225,000
• Rasul	850,000	952,170	10-9-1992	34,000	12,000	7,000	NIL	Normal	225,000
River Chenab									
• Marala	1,100,000	1,100,000	26-8-1957	28,000	5,000	47,000	17,000	Normal	400,000
• Khanki	1,100,000	1,086,460	27-8-1959	8,000	NIL	30,000	22,000	Normal	400,000
• Qadirabad	900,000	948,530	11-9-1992	18,000	NIL	32,000	12,000	Normal	400,000
• Trimmu	875,000	943,225	08-7-1959	28,000	12,000	27,000	12,000	Normal	450,000
• Panjnad	865,000	802,516	17-8-1973	13,000	NIL	23,000	10,000	Normal	450,000
River Ravi									
• Jassar	275,000	680,000	05-10-1955		3,000		6,000	Normal	150,000
• Shahdara	250,000	680,000	22-9-1988		13,000		17,000	Normal	135,000
• Balloki	380,000	336,200	28-9-1988	31,000	1,000	39,000	15,000	Normal	135,000
• Sidhnai	150,000	330,210	02-10-1988	16,000	1,000	20,000	3,000	Normal	90,000
River Sutlej									
• Suleimanki	325,000	598,872	08-10-1955	16,000	2,000	14,000	2,000	Normal	175,000
• Islam	300,000	492,581	11-10-1955	1,000	NIL	5,000	4,000	Normal	175,000

B. Reservoir Storage Position:

Reservoir	Maximum Conservation Level (Ft-AMSL)	Minimum Operating Level (Ft-AMSL)	Water Level (Feet-AMSL)			Live Storage (MAF)			Present Storage (%age of total storage)
			2020	2021	2022	Maximum	Last Year	Today	
1	2	3	4	5	6	7	8	9	10
Tarbela	**1550.00**	1398.00	1550.00	1536.00	**1550.00**	5.827	5.091	*5.827*	*100 %*
Chashma	**649.00**	638.15	641.50	644.90	**648.60**	0.278	0.123	*0.258*	*92.81 %*
Mangla	**1242.00**	1050.00	1242.00	1193.35	**1190.50**	7.356	3.929	*3.758*	*51.09 %*
					Total Live Storage	**13.461**	**9.143**	*9.843*	*73.12 %*

C. Skardu Temperature:

Skardu Temperature	Last year 2021	Today 2022	Difference (+ /-)
Maximum	**32.6 °C**		
Minimum	**13.3 °C**		

NOTES: **"Mild"** Categories

Low Flood: River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas
Medium Flood: River partly inundating river islands/belas

High Flood: River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboards

"Danger" Categories

Very High Flood (VHF): River flowing between high banks/bunds with encroachment on the freeboard
Exceptionally High Flood (EHF): Imminent danger of overtopping/breaching, or the high bank areas have become inundated

* **Flood Classification/ Historic Peak Floods**: (applied on downstream discharge/Outflow)

(R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"