




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

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DAILY WEATHER & FLOOD SITUATION REPORT
THURSDAY JULY 23, 2020

At present all main rivers of Indus River System are flowing in "Normal Flow Condition" and there is no riverine flood situation. Today's Combined Live Storage of Tarbela, Chashma and Mangla is **8.132 MAF** against **Maximum Storage:13.614 MAF**. **Annexure-I** depicts the normal state of main rivers (inflows & outflows) alongwith Tarbela, Chashma and Mangla water levels (in feet) & storage position (in MAF) as of 0600 hour today.

2. This year considerable fluctuation is being observed in the temperature at Skardu. Using the forecast of Accu Weather, a comparison of temperature at Skardu has been prepared for the next **15 days** of corresponding last three years, which shows continuity of lower temperature during next 15 days than the past two years (2018 and 2019) as depicted in **Annexure-II**. Considering such temperature fluctuations, IRSA is advised for judicious releases, thus to get maximum reservoir storage.
3. Water level in Mangla reservoir is **1228.35 feet** which is appreciably higher than last year of **1177.00 feet** with **13.65 feet** space is available to reach its **MCL:1242.00 feet**. Mangla Dam Management, Flood Mitigation Committee, IRSA and FFD, Lahore to strictly ensure round-the-clock monitoring and utmost vigilance, considering the safety of dam as well as timely dissemination of early warning of any abnormal flow to the Flood Managers and to the local populations in the downstream areas.
4. At present Weak Seasonal Low is persisting over Northern Balochistan with Arabian Sea's weak moist currents penetrating into upper parts of Pakistan upto 3000 feet as reported by the FFD, Lahore.
5. For the coming 24 hours, isolated thunderstorm/rain over Punjab, Khyber Pakhtunkhwa, Eastern Balochistan, Gilgit Baltistan and upper catchments of all the major rivers has been predicted by the FFD, Lahore. Present subdued rainfall activity may likely to continue upto **27th July 2020**. However, a fresh wet spell of moderate intensity is expected over the upper half of Pakistan from **28th July 2020**. No significant rainfall activity has been reported by FFD, Lahore during the past 24 hour except for Rawalakot= 08 mm.
6. Pakistan Meteorological Department (PMD), responsible for analyzing Met situation, is keeping all concerned fully informed through its central Flood Forecasting Division based in 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. Secretary to the Prime Minister, Prime Minister's Office, Islamabad.
4. Secretary, Ministry of Water Resources, Islamabad.
5. Secretary, Ministry of Climate Change, Islamabad.
6. Secretary, Ministry of National Food Security and Research, Islamabad.

7. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
8. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
9. Chief Executive Officer, Pakistan Railways, Lahore.
10. Member (Infrastructure), Planning Commission, Islamabad.
11. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
12. Chairman, WAPDA, WAPDA House, Lahore.
13. Chairman, National Highway Authority, Islamabad.
14. Chairman, Indus River System Authority, Islamabad.
15. Member (Water), WAPDA, WAPDA House, Lahore.
16. Director General, Pakistan Meteorological Department, Islamabad.
17. Chief Secretary, Government of the Punjab, Lahore.
18. Chief Secretary, Government of Sindh, Karachi.
19. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
20. Chief Secretary, Government of Balochistan, Quetta.
21. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
22. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
23. Chief Commissioner, Islamabad.
24. Secretary, Irrigation Department, Government of the Punjab, Lahore.
25. Secretary, Irrigation Department, Government of Sindh, Karachi.
26. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
27. Secretary, Irrigation Department, Government of Balochistan, Quetta.
28. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
29. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
30. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
31. Project Director/Chief Engineer, Mangla Dam Organization (MDO), WAPDA, Mangla.
32. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
33. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
34. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
35. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
36. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
37. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
38. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
39. Principal Information Officer, Press Information Department, Islamabad.
40. Director (News), Associated Press of Pakistan, Islamabad.
41. Director (News), Pakistan Television, Islamabad.
42. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.
U.O. No. FC-I (31)/2020, dated 23-07-2020

**Discharges at Important River Sites
July 23, 2020 at 0600 Hours**

(Figures in Cusecs)

Structures	Designed Capacity	Actual Flow		Comparative Danger (VHF) Classification	Actual Flood
		In Flow	Out Flow		
River Indus					
▪ Tarbela Reservoir	1,500,000	164,000	141,000	650,000	Normal
▪ Kalabagh	950,000	206,000	198,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	211,000	204,000	650,000	Normal
▪ Taunsa ^	1,000,000	216,000	191,000	650,000	Normal
▪ Guddu	1,200,000	186,000	155,000	700,000	Normal
▪ Sukkur ^^	900,000	140,000	82,000	700,000	Normal
▪ Kotri	875,000	62,000	19,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		35,000	200,000	Normal
▪ Nowshera			49,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			14,000	150,000	Normal
▪ Munda Head Works ^^	150,000		10,000	150,000	Normal
▪ Charsadda Road Bridge			9,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	32,000	13,000	225,000	Normal
▪ Rasul	850,000	8,000	NIL	225,000	Normal
River Chenab					
▪ Marala	1,100,000	60,000	30,000	400,000	Normal
▪ Khanki	1,100,000	45,000	37,000	400,000	Normal
▪ Qadirabad	900,000	42,000	20,000	400,000	Normal
▪ Trimmu	645,000	23,000	8,000	450,000	Normal
▪ Panjnad	700,000	15,000	NIL	450,000	Normal
River Ravi					
▪ Jassar	275,000		5,000	150,000	Normal
▪ Shahdara	250,000		22,000	135,000	Normal
▪ Balloki	225,000	46,000	21,000	135,000	Normal
▪ Sidhnai	150,000	25,000	14,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	22,000	12,000	175,000	Normal
▪ Islam	300,000	6,000	4,000	175,000	Normal

Live Storage (MAF) +

<u>Reservoir Elevation (in Feet Above Mean Sea Level)</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>Maximum</u>	<u>Today</u>	<u>Last Year</u>	
Tarbela: Maximum Conservation Level:	1550.00	1460.16	1501.85	1469.52	5.980	1.609	3.504
Minimum Operating Level:	1392.00						
Chashma: Maximum Conservation Level:	649.00	648.00	645.50	647.10	0.278	0.227	0.139
Minimum Operating Level:	637.00						
Mangla: Maximum Conservation Level:	1242.00	1228.35	1177.00	1134.65	<u>7.356</u>	<u>6.296</u>	<u>3.020</u>
Minimum Operating Level:	1050.00						
Total Live Storage				13.614	8.132	6.663	

Skardu Temperature	Today 2020	Last year 2019
Maximum	25.6 °C	34.8 °C
Minimum	13.2 °C	23.0 °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 freeboard

"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: (applied on downstream discharge/Outflow)

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

+ Based on IRSA's Daily Hydrological Data

^^ PID, Sindh vide letter No. DR/4-17/2015/839 dated 22-04-2015 informed that design discharge capacity of Sukkur Barrage has decreased from 1,500,000 cusecs to 900,000 cusecs due to closing of its ten (10) gates as a result of model study carried out in Poona during 1941-42 to control silting problem in right bank canals.

^ As per PID, Punjab's letter No. 1WT&R/14/1108/04/97 dated 17-09-2014

^^ As per PID, KP's letter No. 1271GSG-II/ dated 11-06-2018

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COMPARISON OF SKARDU TEMPERATURE FOR NEXT 15 DAYS OF LAST 3 YEARS

S.No.	Date	Skardu Temperature Maximum (°C)			Difference in Temperature (°C)	
		2018	2019	2020	2018	2019
1	Jul-23	35.6	34.8	19	-16.6	-15.8
2	Jul-24	28.7	37.3	20	-8.7	-17.3
3	Jul-25	26.2	36.1	20	-6.2	-16.1
4	Jul-26	30.5	35.9	23	-7.5	-12.9
5	Jul-27	27.1	27	25	-2.1	-2
6	Jul-28	20.6	25.4	28	7.4	2.6
7	Jul-29	24.2	27.4	28	3.8	0.6
8	Jul-30	21.7	29.1	26	4.3	-3.1
9	Jul-31	28.6	33.6	28	-0.6	-5.6
10	Aug-01	31	35.2	30	-1	-5.2
11	Aug-02	30.3	34.6	30	-0.3	-4.6
12	Aug-03	33.3	34.5	30	-3.3	-4.5
13	Aug-04	35.6	32.1	22	-13.6	-10.1
14	Aug-05	36.3	32.6	23	-13.3	-9.6
15	Aug-06	38.8	34.7	22	-16.8	-12.7

Source: PMD Islamabad for 2018 and 2019, Accu Weather Forecast for 2020