



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
TUESDAY JULY 21, 2020

All rivers of Indus River System are presently flowing in Normal Flow Condition. Complete picture of river inflows & out flows at important control points including reservoirs latest levels & storage position may be seen as depicted in **Annexure-I**.

2. This year much variance is being experienced in both the water level and storage capacity of **Tarbela Dam** owing to continuous fluctuations in temperature at Skardu. Last 15 days comparison (**July 7-21, 2019 & July 7-21, 2020**) may be seen at **Annexure-II**. IRSA is advised for judicious releases accordingly.


3. In view of much higher water level of **Mangla reservoir** (Today's **1227.00 feet** Vs **1174.00 feet** last year), the Mangla Dam Management, Flood Mitigation Committee, IRSA and FFD, Lahore are required to ensure round-the-clock monitoring and exercise top most vigilance, **in light of FFD, Lahore forecast for next 24 hours predicting sharp peaks upto Medium level in River Jhelum at Mangla (upstream)**.

4. At present, Westerly Wave trough continues to prevail over Northern parts of Pakistan with Marked Seasonal Low over Northern Balochistan. FFD, Lahore has reported incursion of Arabian Sea's moist currents into upper parts of Pakistan upto 5000 feet.

5. For the next 24 hours, FFD, Lahore forecast predicts likelihood of scattered to widespread wind thunderstorm/rain with **Heavy Falls** at isolated places and **Very Heavy Falls** at few places over Multan, Bahawalpur, D.G. Khan & Sargodha Divisions of Punjab and D.I. Khan Division of Khyber Pakhtunkhwa, besides Northeastern Balochistan. Additionally during the same period, scattered wind thunderstorm/rain of moderate intensity with few **Heavy Falls** are also expected over Rawalpindi, Gujranwala, Faisalabad, Lahore & Sahiwal Divisions (Punjab) and Malakand, Hazara, Peshawar, Kohat & Bannu Divisions (KP), besides over upper catchments of all the major rivers.

6. For the ensuing **36 hours**, under the influence of prevailing weather system, besides sharp peaks upto Medium level in River Jhelum at Mangla (Para-3 above), Light to Moderate flooding in the Nullahs of Rivers Ravi & Chenab, Moderate flooding in Hill Torrents of D.G. Khan Division and urban flooding in Multan District is expected. Punjab, KP, AJ&K and GB have experienced fairly good rains during the past 24 hour (**Annexure-III**).

7. Pakistan Meteorological Department (PMD), the custodian of analyzing Met situation, is actively monitoring the present weather system and is keeping all concerned fully informed through its central Flood Forecasting Division in Lahore.


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

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29. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
30. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
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32. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
33. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
34. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
35. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
36. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
37. Principal Information Officer, Press Information Department, Islamabad.
38. Director (News), Associated Press of Pakistan, Islamabad.
39. Director (News), Pakistan Television, Islamabad.
40. Flood Cell, General Staff Branch, Engineer Directorate, GHQ, Rawalpindi.

U.O. No. FC-I (31)/2020, dated 21-07-2020

**Discharges at Important River Sites
July 21, 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	187,000	128,000	650,000	Normal
▪ Kalabagh	950,000	219,000	211,000	650,000	Normal
▪ Chashma Reservoir	1,000,000	209,000	203,000	650,000	Normal
▪ Taunsa ^	1,000,000	215,000	191,000	650,000	Normal
▪ Guddu	1,200,000	180,000	142,000	700,000	Normal
▪ Sukkur ^^	900,000	125,000	67,000	700,000	Normal
▪ Kotri	875,000	61,000	19,000	650,000	Normal
River Kabul					
▪ Warsak	540,000		35,000	200,000	Normal
▪ Nowshera			56,000	200,000	Normal
River Swat (Tributary of Kabul)					
▪ Chakdara Bridge			15,000	150,000	Normal
▪ Munda Head Works ^^	150,000		11,000	150,000	Normal
▪ Charsadda Road Bridge			8,000	100,000	Normal
River Jhelum					
▪ Mangla Reservoir	1,060,000	31,000	15,000	225,000	Normal
▪ Rasul	850,000	15,000	8,000	225,000	Normal
River Chenab					
▪ Marala	1,100,000	60,000	30,000	400,000	Normal
▪ Khanki	1,100,000	43,000	36,000	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	25,000	9,000	450,000	Normal
River Ravi					
▪ Jassar	275,000		12,000	150,000	Normal
▪ Shahdara	250,000		24,000	135,000	Normal
▪ Balloki	225,000	51,000	24,000	135,000	Normal
▪ Sidhnai	150,000	20,000	5,000	90,000	Normal
River Sutlej					
▪ Suleimanki	325,000	17,000	5,000	175,000	Normal
▪ Islam	300,000	6,000	5,000	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	1457.65	1496.01	1455.03	5.980	1.508	3.230
Minimum Operating Level:	1392.00						
Chashma: Maximum Conservation Level:	649.00	648.00	645.60	647.90	0.278	0.227	0.158
Minimum Operating Level:	637.00						
Mangla: Maximum Conservation Level:	1242.00	1227.00	1174.00	1131.10	<u>7.356</u>	<u>6.196</u>	<u>2.867</u>
Minimum Operating Level:	1050.00						
Total Live Storage					13.614	7.931	6.255

Skardu Temperature	Today 2020	Last year 2019
Maximum	30.0 °C	33.7 °C
Minimum	13.0 °C	19.0 °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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**2019-2020 COMPARISON OF WATER LEVEL IN TARBELA DAM
LAST 15 DAYS (JULY, 7 TO JULY 21)**

S.No	Date	2019	2020	Variance (in feet) (+) Above/(-) Below
		Water Level (Feet) SPD	Water Level (Feet) SPD	
1	07-Jul	1421.51	1462.22	40.71
2	08-Jul	1426.27	1462.02	35.75
3	09-Jul	1431.35	1461.60	30.25
4	10-Jul	1437.95	1460.86	22.91
5	11-Jul	1446.36	1460.80	14.44
6	12-Jul	1453.94	1460.42	6.48
7	13-Jul	1460.78	1459.85	-0.93
8	14-Jul	1467.42	1459.15	-8.27
9	15-Jul	1473.40	1458.07	-15.33
10	16-Jul	1478.75	1456.70	-22.05
11	17-Jul	1483.39	1455.39	-28.00
12	18-Jul	1486.90	1455.10	-31.80
13	19-Jul	1490.17	1455.48	-34.69
14	20-Jul	1493.04	1456.11	-36.93
15	21-Jul	1496.01	1457.65	-38.36

Source: Tarbela Dam Project, WAPDA

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Significant Rainfall Events during the Past 24 Hours

Sr. No.	City/Observatory	Rainfall (mm)
	Punjab	
1.	Faisalabad	89
2.	Kasur	82
3.	Lahore	(Gulshan e Ravi=73, Johar Town=63, Punjab University=52, Gulberg= 49, Samanabad= 46, Jail Road & Iqbal Town= 45(each), Shahi Qilla= 39, Shahdara=38, Lukshmi=37, Township & Airport=32 (each), Upper Mall=30, Misri Shah=29, Taj Pura=28 & Mughal Pura=12)
4.	Shadiwal	73
5.	Noorpur Thal	70
6.	Sargodha (Airbase)	66
7.	Multan	(City=61, Shujabad, Mumtazabad & Sameejabad=60(each), Chungi No.9=46 & Airport=41)
8.	Jhang	51
9.	Okara	48
10	Islamabad	(Chaklala Airbase= 35, Zeropoint=16, Shamsabad= 08 & Saidpur=06)
11	Shorkot	29
12	Sahiwal & Khanewal	28 each
13	Bahawalnagar	24
14	Murree	23
15	TT Singh & Hafizabad	13 each
16	Phulra	12
17	Attock	11
18	Gujranwala	07
	Azad Jammu & Kashmir	
1.	Kotli	34
2.	Joharabad	31
3.	Chattar Kallas	30
4.	Domel	28
5.	Haraman	23
6.	Hajira	20

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Sr. No.	City/Observatory	Rainfall (mm)
7.	Muzaffarabad	(City=19 & Airport=10)
8.	Bandi Abbaspur	17
9.	Garhi Dopatta	15
10.	Chakothi, Rawalakot & Palandri	11 each
11.	Brarkot & Tandali	10 each
12.	Panjera & Sehrkakota	07 each
Khyber Pakhtunkhwa		
1.	Daggar	31
2.	Shinkiari	28
3.	Oghi & Kalam	19 each
4.	DI Khan	18
5.	Kohat	15
6.	Balakot	14
7.	Buner	08
8.	Kakul & Saidu Sharif	07 each
9.	Malam Jabba & Pattan	06 each
Gilgit-Baltistan		
1.	Skardu	08
2.	Bagrote & Astore	05 each

Source: FFD, Lahore (Phone No. 042 99200139)