

Central Water Commission Upper Ganga Basin Organisation, Lucknow Daily Flood Situation Report Cum Advisories Date: 08 SEPTEMBER, 2020

FSR No.78 Dated 08-09-2020

1. Weather forecast by IMD

I. SYNOPTIC SITUATION:

- ♦ The Monsoon Trough at mean sea level now passes through Ganganagar, Hissar, Bareilly, Azamgarh, Supaul and thence eastwards to Nagaland across Sub-Himalayan West Bengal and Assam.
- ♦ A trough extending upto 3.6 km above mean sea level runs from northwest Uttar Pradesh to central parts of East Rajasthan.
- ♦ The cyclonic circulation over northeast Rajasthan & neighbourhood and the other cyclonic circulation over northwest Uttar Pradesh & neighbourhood have merged with the above trough.
- ♦ The trough in mid tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 69°E to the north of Lat. 30°N persists.

II. a) DETERMINISTIC FORECAST (QPF):

			QPF (mm)		_
Sr. No.	BASIN NAME	SUBBASIN CODE/NAME	Day-1	Day-2	Day-3
1	Alaknanda	Alaknanda	0.1-10	0.1-10	0.1-10
2	Bhagirathi	Bhagirathi	0.1-10	0.1-10	0.1-10
		Chhatnag to Mirzapur	0.1-10	0.1-10	0.1-10
		Narora to Phaphamau	0.1-10	0.1-10	0.1-10
3	Ganga	Phaphamau to Ballia	0.1-10	0.1-10	0.1-10
	Canga	Gomti	0.1-10	0.1-10	0.1-10
		Sai	0.1-10	0.1-10	0.1-10
		Upper Ganga	0.1-10	0.1-10	0.1-10
		Lower Ghaghra	0.1-10	0.1-10	0.1-10
4	Ghaghra	Middle Ghaghra	0.1-10	0.1-10	0.1-10
		Upper Ghaghra	0.1-10	0.1-10	0.1-10
5	Ramganga	Ramganga	0.1-10	0.1-10	0.1-10
6	Rapti	Rapti	0.1-10	0.1-10	0.1-10
7.	Sharda	Sharda	0.1-10	0.1-10	0.1-10

II (b) <u>DETERMINISTIC FORECAST (DISTRIBUTION)</u>

	5.65.33.45	SUBBASIN	INTE SPA	(D)				
	BASIN NAME	CODE/NAME	Day-	1	Day-2		Day-	3
			Ι	D	I	D	I	D
1	Alaknanda	Alaknanda	VL	ISOL	VL	ISOL	VL	ISOL
2	Bhagirathi	Bhagirathi	VL	ISOL	VL	ISOL	VL	ISOL
		Chhatnag to Mirzapur	VL	ISOL	L	SCT	L	FWS
		Narora to Phaphamau	VL	ISOL	VL	ISOL	VL	ISOL
3	Ganga	Phaphamau to Ballia	L	ISOL	M	FWS	M	FWS
3		Gomti	VL	ISOL	VL	ISOL	VL	ISOL
		Sai	VL	ISOL	VL	ISOL	VL	ISOL
		Upper Ganga	VL	ISOL	VL	ISOL	VL	ISOL
		Lower Ghaghra	L	SCT	L	SCT	L	SCT
4	Ghaghra	Middle Ghaghra	L	SCT	VL	ISOL	VL	ISOL
		Upper Ghaghra	L	SCT	VL	ISOL	VL	ISOL
5	Ramganga	Ramganga	VL	ISOL	VL	ISOL	VL	ISOL
6	Rapti	Rapti	L	SCT	L	SCT	L	SCT
7.	Sharda	Sharda	L	ISOL	L	ISOL	L	ISOL

III. HEAVY RAINFALL WARNING:

NAME OF	NAME OF SUB-	Day-1		Day-2		Day-3	
BASIN	BASIN	I	D	I	D	Ι	D
Alaknanda	Alaknanda						
Bhagirathi	Bhagirathi						
	Chhatnag to Mirzapur						
	Narora to Phaphamau						
Ganga	Phaphamau to Ballia						
	Gomti						
	Sai						
	Upper Ganga						
	Lower Ghaghra						
Ghaghra	Middle Ghaghra						
	Upper Ghaghra						
Ramganga	Ramganga						
Rapti	Rapti						
Sharda	Sharda						

5	Spatial Distribution of Rainfall								
DRY Dry No Station reported rainfall									
ISOL	One or two Places	25% or less number of stations recorded rainfall 2.5 mm							
SCT	At a few Places	26%-50% number of stations recorded rainfall 2.5 mm							
FWS	At many Places	51%-75% number of stations recorded rainfall 2.5 mm							
WS	At most places	76%-100% number of stations recorded rainfall 2.5 mm							

	m .	Intensity	of Rainfa	II	(99)
M.Dry.	NIL	0 cm	VL	Very Light Rainfall	Trace
L	Light Rainfall	Upto 1 cm	M	Moderate rainfall	02-06 cm
H	Heavy rainfall	07-11 cm	VH	Very Heavy rainfall	12-20 cm
EH	Extremely Heavy rainfall	21 cm or More		W 2000 20	
ExH	Exceptionally Heavy Rainfall		he month or	e near about the highest reco season. However, this term xceeds 12 cm	

IV. PROBABILISTIC FORECAST

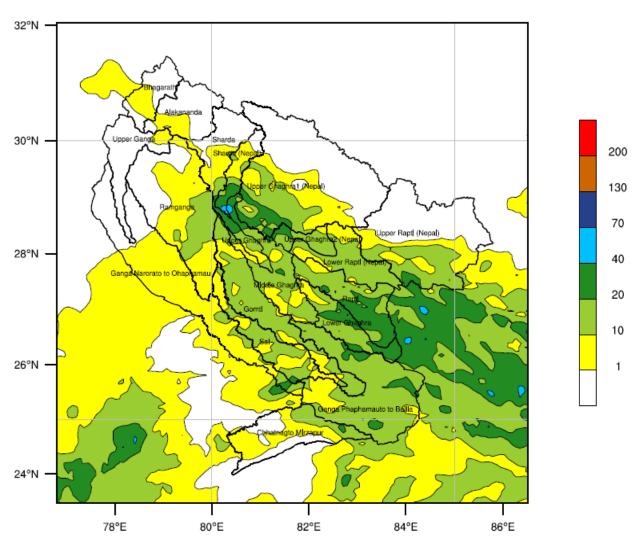
			Day-	1					Day-2					Day-3						
S. No.	BASIN NAME	SUBBASIN CODE/NAME	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm	0 mm	0.1-10 mm	11-25 mm	26-50 mm	51-100 mm	>100 mm
1	Alaknanda	Alaknanda		75-100						75-100			-			75-100			_	
2	Bhagirathi	Bhagirathi		75-100						75-100						75-100				
		Chhatnag to Mirzapur		75-100						75-100						75-100				
		Narora to Phaphamau		75-100						75-100						75-100				
3	Ganga	Phaphamau to ballia		75-100						75-100						75-100				
		Gomti		75-100						75-100						75-100				
		Sai		75-100						75-100						75-100				
		Upper Ganga		75-100						75-100						75-100				
		Lower Ghaghra		75-100						75-100						75-100				
4	Ghaghra	Middle Ghaghra		75-100						75-100						75-100				
		Upper Ghaghra		75-100						75-100						75-100				
5	Ramganga	Ramganga		75-100						75-100						75-100				
6	Rapti	Rapti		75-100						75-100						75-100				
7.	Sharda	Sharda		75-100						75-100						75-100				

Probability of occurrence (%)	0-5	5-25	25-50	50-75	75-100
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Init; 2020-09-08_00:00:00 Valld: 2020-09-09_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(24hr)



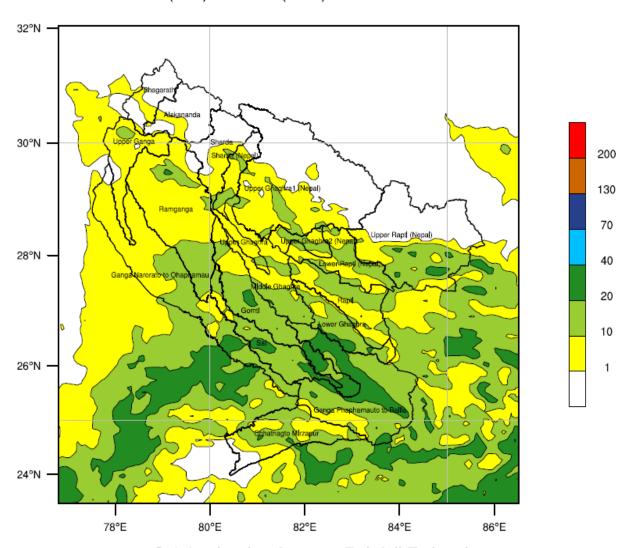
Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Raptl =	19 mm
Bhaglrath =	1 mm	Sai =	11 mm
Chhatnagto Mirzapur =	5 mm	Sharda =	12 mm
Ganga Narorato Ohaphamau =	5 mm	Sharda (Nepal) =	6 mm
Ganga Phaphamauto Balia =	14 mm	Upper Ganga =	0 mm
Gomtl =	12 mm	Upper Ghaghra =	5 mm
Lower Ghaghara =	18 mm	Upper Ghaghra1 (Nepal) =	15 mm
Lower Raptl (Nepal) =	12 mm	Upper Ghaghra2 (Nepal) =	17 mm
Mlddle Ghaghara =	12 mm	Upper Raptl (Nepal) =	5 mm
Ramganga -	5 mm		

Init; 2020-09-08_00:00:00 Valld: 2020-09-10_03:00:00

FLOOD MET OFFICE LUCKNOW

IMD WRF Rainfall (mm) Forecast(48hr)



Sub basin wise Average Rainfall Estimation

Alaknanda =	1 mm	Raptl =	10 mm
Bhaglrathl =	1 mm	Sai =	16 mm
Chhatnagto Mirzapur =	9 mm	Sharda =	6 mm
Ganga Narorato Ohaphamau =	10 mm	Sharda (Nepal) =	3 mm
Ganga Phaphamauto Balia =	17 mm	Upper Ganga =	5 mm
Gomtl =	15 mm	Upper Ghaghra =	3 mm
Lower Ghaghara =	14 mm	Upper Ghaghra1 (Nepal) =	9 mm
Lower Raptl (Nepal) =	10 mm	Upper Ghaghra2 (Nepal) =	6 mm
Mlddle Ghaghara =	12 mm	Upper Raptl (Nepal) =	6 mm
Ramganga =	8 mm		

2. Summary of flood situation as per CWC flood forecasting network

Flood Situation on 08 SEPTEMBER, 2020



2.1 Rainfall Situation

Amount of rainfall recorded at 8:30 hours IST of today ($(\geq 50 \text{ mm or more})$

Name of Place (State)	Rainfall (in mm)
NIL	

Note - No Station is in this situation Dated 08.09.2020

2.2 LEVEL FORECAST

	LEVEL FORECAST	
		No. of Forecasting
S.No.	Flood Situations	Sites
	Extreme Flood Situation:	
A .	(Site (s) where the previous Highest Flood Level (HFL) is exceeded or	
	equalized)	0
	Severe Flood Situation :	
	(Site(s) where water Level touching or exceeding the Danger Level but below	0
В.	Highest Flood Level(HFL)	
	Above Normal Flood Situation:	
C.	(Site (s) where water level touching or exceeding the warning Level but below	04
	Danger Level)	
	Total Numbers of Sites above Warning Level (A+B+C)	04
	INFLOW FORECAST	
Numbe	r of Sites for which inflow forecasts issued:	0
`	inflow are equal or exceed the specified Threshold Limit for a particular ir/ barrage)	0

2.3 Above Normal (Water Level touching or exceeding the warning Level but below Danger Level)

Name of river	Flood Forecastin g Sites	District	State	Danger	Warning	Previous Highest		Actual Level			Forecast				
				Level(m)	Level (m)	Level (m)	Date	Level (m)	Time	Trend	Level (m)	Date	Time	Trend	
Ghaghra	Elgin Bridge	Barabanki	U.P	106.07	105.07	107.616	2014	105.216	0800	S	105.10	09.09.20	0800	F	
Ghaghra	Turtipar	Ballia	U.P	64.01	63.01	66.00	1998	63.25	0800	S	63.10	09.09.20	0800	F	
Ganga	Ballia	Ballia	U.P	57.615	56.615	60.39	2016	57.27	0800	F	56.90	09.09.20	0800	F	
Ganga	Kachhla bridge	Budaun	U.P	161.00	162.00	162.79	2010	161.21	0800	S	161.10	09.09.20	0800	F	

2.4 Severe Flood Situation (Water Level touching or exceeding the Danger Level but below Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites	District	State	Danger Level(m)	Warning Level (m)	Previous Highest					Forecast			
				Level(III)	` '	Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

2.5 Extreme Flood Situation (Water Level exceeded or equalized Highest Flood Level (HFL))

Name of river	Flood Forecasting Sites			Danger Level(m)	Warning Level (m)	Previo	us Highest	Actual Level			Forecast			
		District	State			Level(m)	Date	Level(m)	Time	Trend	Level (m)	Date	Time	Trend

Note - No Station is in this situation Dated 08.09.2020

2.6 Inflow Forecast

	Flood Forecasting Sites	District			FRL(m)	Previous Highest		Actual Level			ı			
Name of river			State	HFL(m)		Discharge (Q)	Date	Discharge (Q)	Time	Trend	D (Q)	Date	Time	Trend

Advisory on Hydro Meteorological Situation Expected from 09-09-2020 to 10-09-2020

As per rainfall pattern given in section II, Alaknanda, Bhagirathi & Ganga rivers are expected to receive very light rain at isolated areas in next 48 hrs. Ghaghra, Ramganga, Sharda & Rapti river basins are expected to receive very light to light rain at isolated to scattered areas in next 48 hours. Water level at most of CWC stations are expected to fall in next 48 hours. Level forecast will be issued if the level of river at stations are likely to touch or cross warning level. From the given QPF, Above normal flood like situation is expected in Ganga, Ghaghra, Rapti & Sharda river basins.

अधिशासीअभियंता

मध्य गंगा मण्डल -1 लखनऊ