Government of India
Ministry of Earth Sciences (MoES)
India Meteorological Department
Meteorological Centre, Shimla

Monsoon Report 2025

Date of Issue: 01st October, 2025

1. Main Features: -

1. In the year 2025, the southwest monsoon entered in Himachal Pradesh on 20th June, 2025 and covered entire state by 24th June, 2025, one day earlier as compared to the normal onset date of covering entire state i.e. 25th June. In last 29 years, the earliest onset of southwest monsoon was on 09th June, 2000 and most delayed onset was on 05th July, 2010.
2. The Southwest monsoon seasonal (June to September) rainfall has been excess over the state with 1022.5 mm of actual rainfall during monsoon 2025 against its normal 734.4 mm with 39% departure.
3. This year, Himachal Pradesh received 15th highest rainfall of 1022.5 mm in monsoon season in the last 125 years and highest in the last 29 years. However, the highest rainfall (1314.6 mm) was recorded in the year 1922 for the period of 1901 to 2025.

2. Progress of Southwest Monsoon: -

1. In the month of June, Himachal Pradesh received 135.0 mm actual rainfall against its normal value of 101.1 mm which was 34% more than its Long Period Average. Districts Hamirpur, Mandi, Shimla, Solan & Sirmaur received large excess precipitation; districts Bilaspur, Kangra, Kullu & Una received excess precipitation; district Chamba received normal precipitation and remaining districts of Himachal Pradesh received deficient precipitation.
2. In the month of July, Himachal Pradesh received 250.3 mm actual rainfall against its normal value of 255.9 mm which was 2% lesser than its Long Period Average. District Shimla received large excess precipitation; districts Kullu & Mandi received excess precipitation; districts Bilaspur, Chamba, Kangra, Kinnaur, Hamirpur, Sirmaur, Solan & Una received normal precipitation and district Lahaul-Spiti received large deficient precipitation.
3. In the month of August, Himachal Pradesh received 431.3 mm actual rainfall against its normal value of 256.8 mm which was 68% more than its Long Period Average. Districts Bilaspur, Chamba, Kinnaur, Kullu, Mandi, Shimla, Solan & Una received large excess precipitation; districts Hamirpur, Kangra & Sirmaur have received excess precipitation and district Lahaul-Spiti has received normal precipitation.
4. In the month of September, Himachal Pradesh has received 205.7 mm actual rainfall against its normal value of 120.6 mm which is 71% higher than its Long Period Average. Districts Bilaspur, Hamirpur, Kullu, Mandi, Shimla, Sirmaur & Solan have received large excess precipitation; districts Chamba, Kangra, Lahaul-Spiti & Una have received excess precipitation and district Kinnaur has received normal precipitation.
5. Extremely heavy rainfall was reported over Sandhole (distt. Mandi), Mandi (distt. Mandi) & Pandoh (distt. Mandi) on 01st July; over Sandhole (distt. Mandi) on 29th July; over Una (distt. Una) on 02nd August; over R L BBMB (distt. Bilaspur), Raipur Maidan (distt. Bilaspur) on 01st September and over Dharmshala (distt. Kangra) on 14th September during this monsoon season.
6. In the month of June, 4 days; in July, 8 days; in August, 15 days and in September, 9 days very heavy rainfall was reported over Himachal Pradesh during this monsoon season.

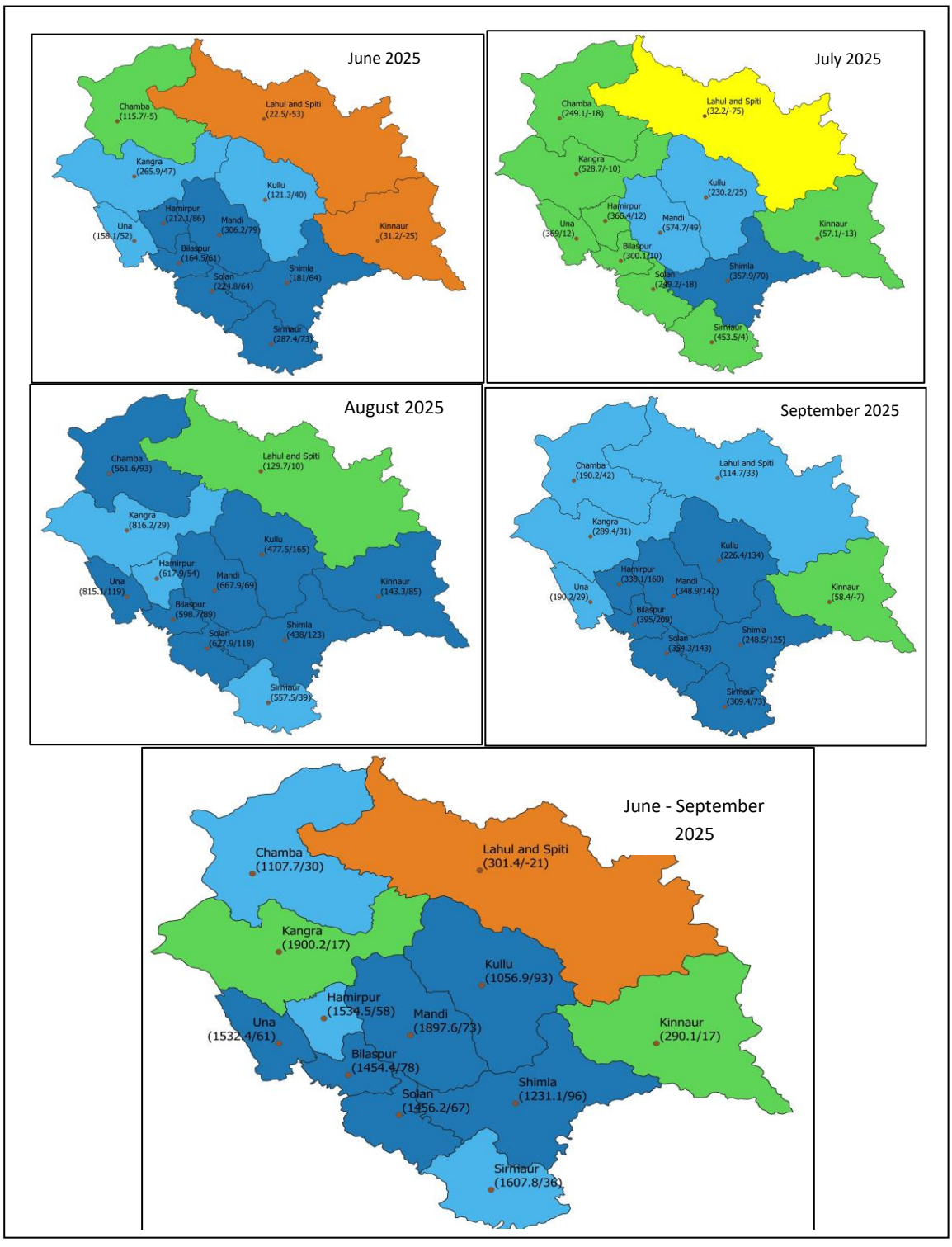
3. Withdrawal of Southwest Monsoon: -

- The Southwest Monsoon had withdrawn from parts of Himachal Pradesh on 24th September, 2025 and further withdrawn from the entire state of Himachal Pradesh on 26th September, 2025, one day after as compared to normal complete withdrawal date from the state i.e. of 25th September.

The onset and withdrawal dates of SW Monsoon from Himachal Pradesh in the last few years are given below: -

Year	Onset	Withdrawal
1997	27.06.1997	23.09.1997
1998	17.06.1998	28.09.1998
1999	20.06.1999	21.09.1999
2000	09.06.2000	23.09.2000
2001	23.06.2001	18.09.2001
2002	04.07.2002	20.09.2002
2003	27.06.2003	27.09.2003
2004	18.06.2004	27.09.2004
2005	26.06.2005	28.09.2005
2006	30.06.2006	27.09.2006
2007	26.06.2007	02.10.2007
2008	13.06.2008	29.09.2008
2009	30.06.2009	28.09.2009
2010	05.07.2010	28.09.2010
2011	25.06.2011	26.09.2011
2012	27.06.2012	26.09.2012
2013	15.06.2013	19.09.2013
2014	01.07.2014	05.10.2014
2015	24.06.2015	29.09.2015
2016	21.06.2016	05.10.2016
2017	01.07.2017	30.09.2017
2018	27.06.2018	01.10.2018
2019	02.07.2019	11.10.2019
2020	24.06.2020	30.09.2020
2021	13.06.2021	10.10.2021
2022	29.06.2022	03.10.2022
2023	24.06.2023	06.10.2023
2024	27.06.2024	02.10.2024
2025	20.06.2025	26.09.2025

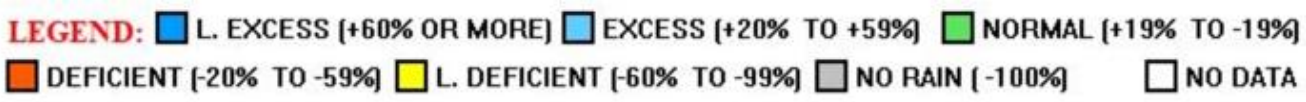
4. Monthly And Seasonal District Wise Observed Rainfall(mm) and its Departures (%) from LPA



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

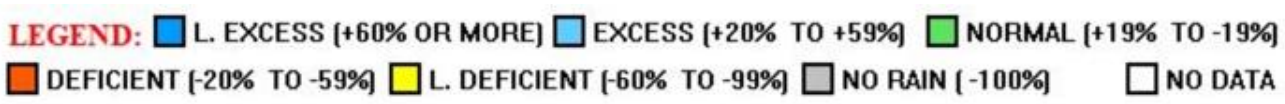
5. Comparison of actual precipitation and departure (%) in HP for period 2010-2025 for September: -

Year	Actual	%Dep.
2010	202.0	47.0
2011	104.8	-24.0
2012	150.9	6.0
2013	67.9	-52.0
2014	86.5	-32
2015	74.0	-42
2016	56.8	-55
2017	106.1	-17
2018	269.8	111
2019	93.5	-27
2020	29.9	-77
2021	173.3	36
2022	135.3	12
2023	69.9	-42
2024	125.2	4
2025	205.7	71



6. Comparison of actual precipitation and departure (%) in HP for period 2010-2025 for monsoon season-

Year	Actual	%Dep.
2010	888.5	10.6
2011	730.3	-9.1
2012	701.8	-15.0
2013	776.9	-7.9
2014	522.2	-31.6
2015	638.2	-16.4
2016	623.9	-18.3
2017	717.2	-6.1
2018	927.0	21.4
2019	686.9	-10.0
2020	567.4	-25.7
2021	688.6	-9.8
2022	716.2	-2.5
2023	886.0	21.0
2024	600.8	-18.0
2025	1022.5	39

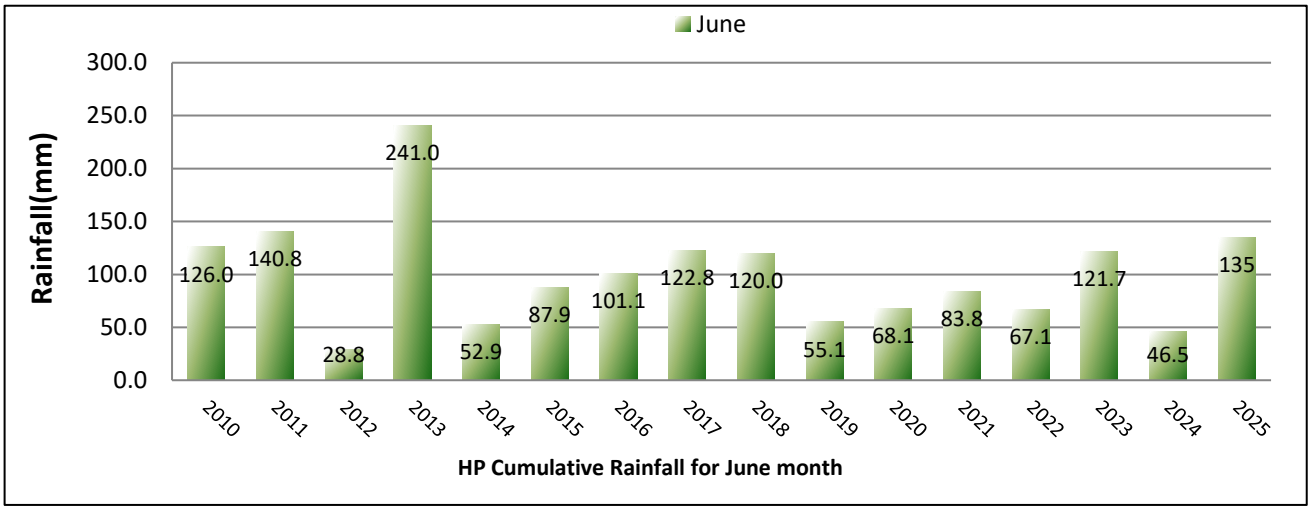


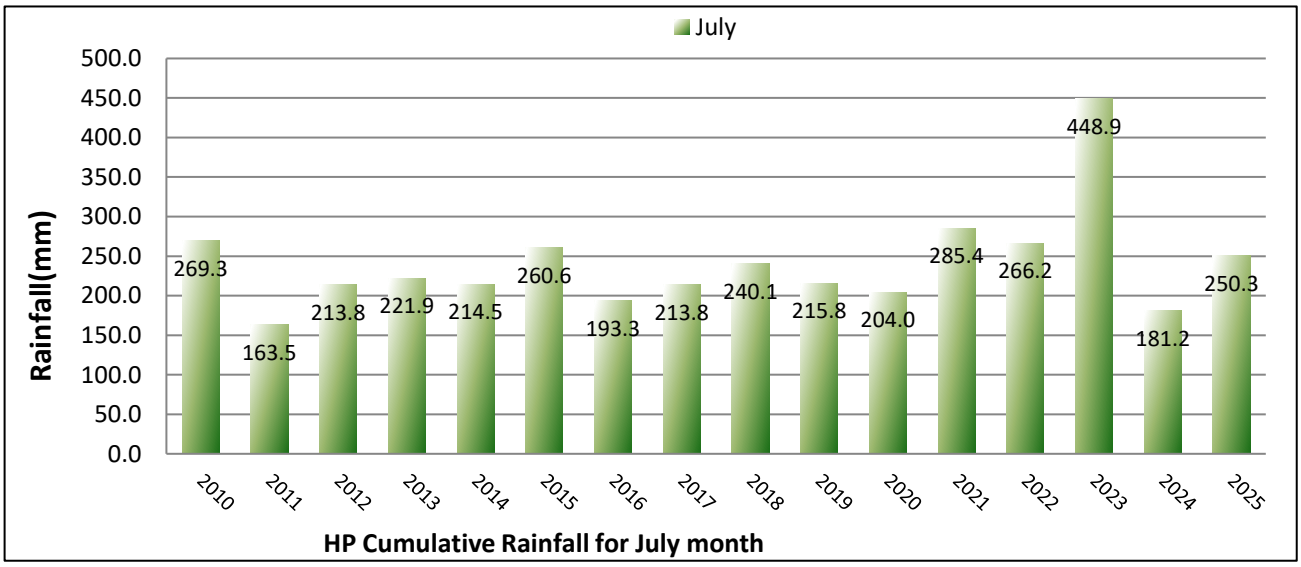
7. Monthly and Seasonal Rainfall: -

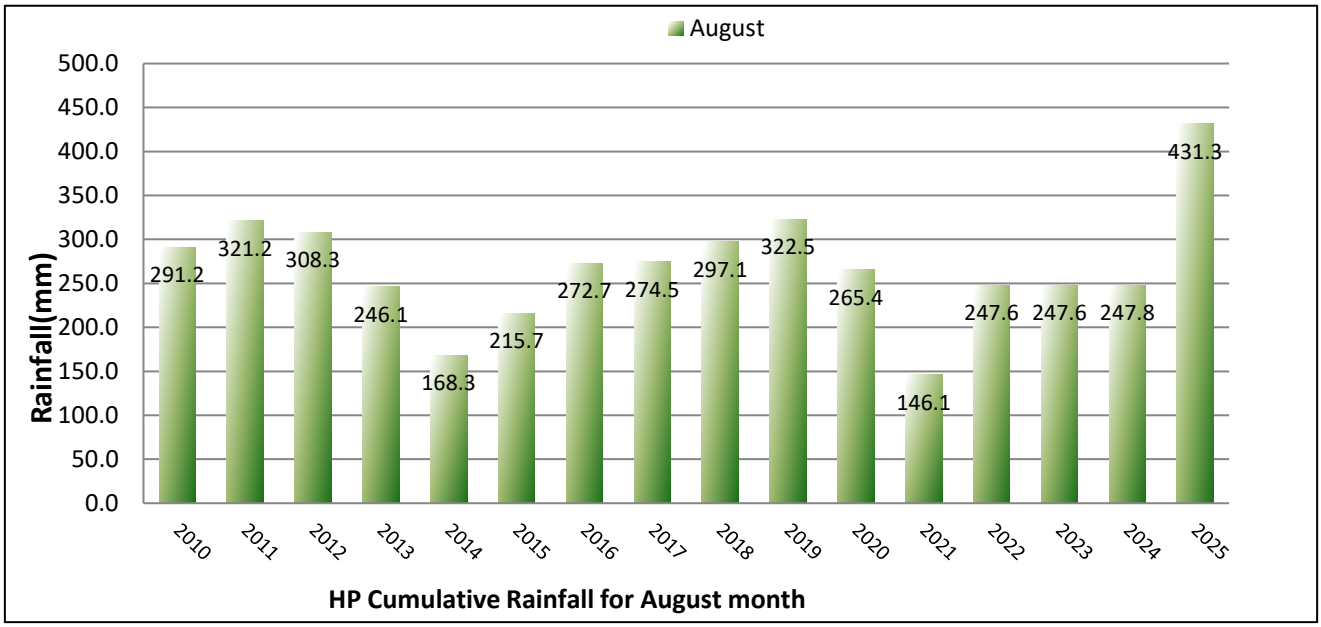
Month / Rainfall	Actual(mm)	Normal(mm)	Departure (%)
June	135.0	101.1	34
July	250.3	255.9	-2
August	431.3	256.8	68
September	205.7	120.6	71
Seasonal	1022.5	734.4	39

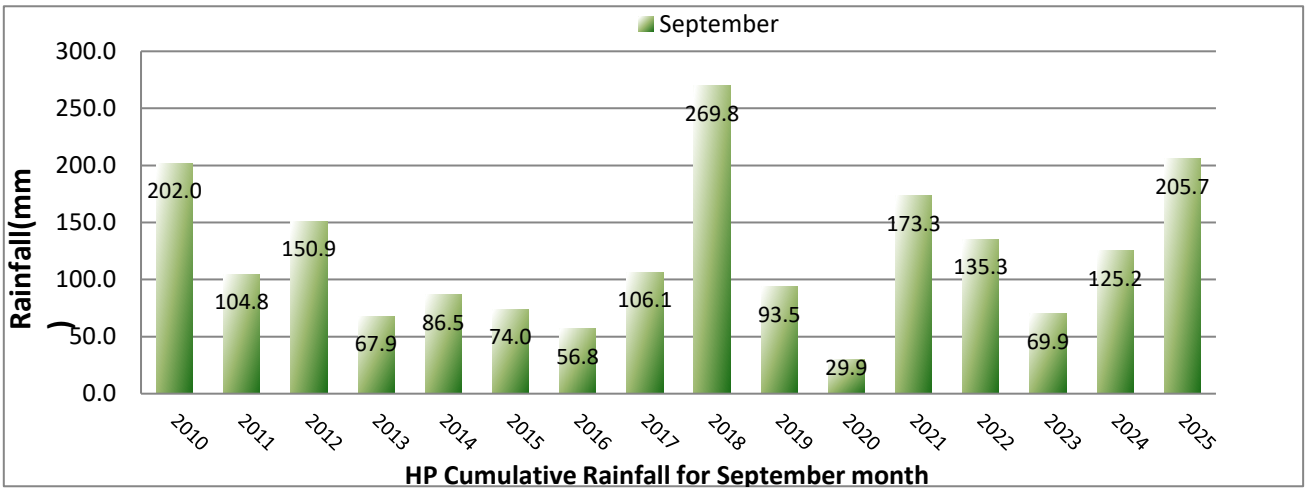
LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

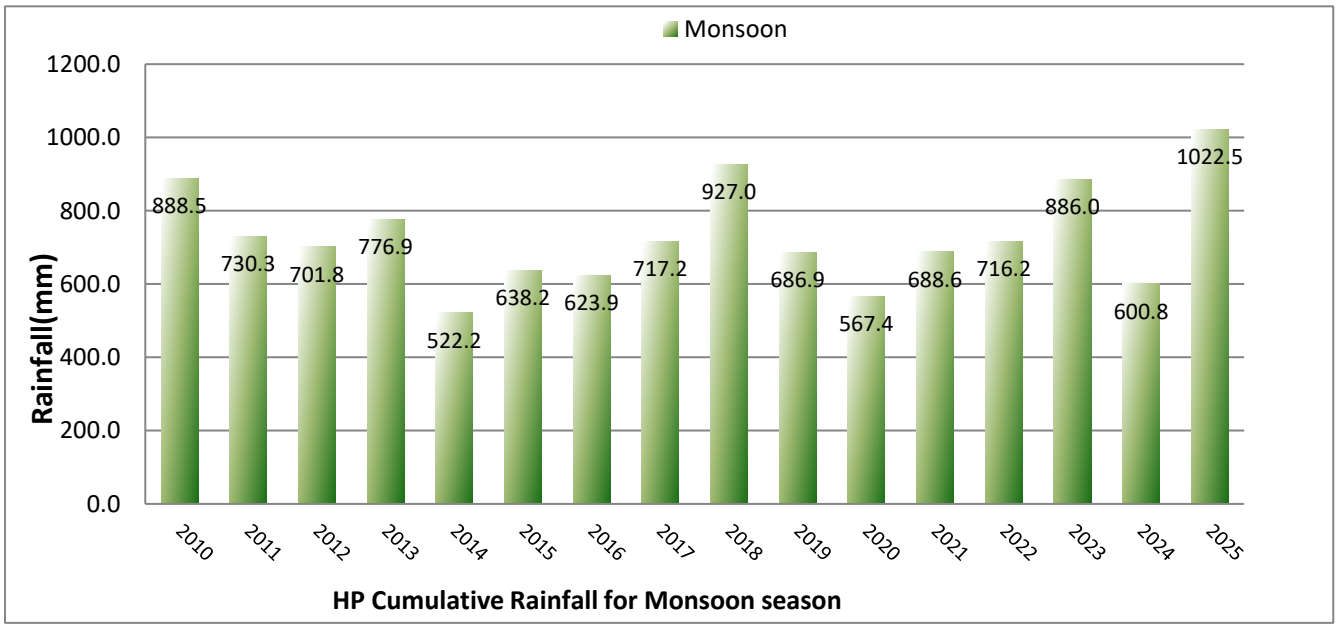
8. Monthly and Seasonal rainfall (mm) comparison from 2010-2025:-






August
Rainfall(mm)
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
291.2
321.2
308.3
246.1
168.3
215.7
272.7
274.5
297.1
322.5
265.4
146.1
247.6
247.6
247.8
431.3
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
HP Cumulative Rainfall for August month


September
Rainfall(mm)
300.0
250.0
200.0
150.0
100.0
50.0
0.0
202.0
104.8
150.9
67.9
86.5
74.0
56.8
106.1
269.8
93.5
29.9
173.3
135.3
69.9
125.2
205.7
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
HP Cumulative Rainfall for September month


Monsoon
Rainfall(mm)
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
888.5
730.3
701.8
776.9
522.2
638.2
623.9
717.2
927.0
686.9
567.4
688.6
716.2
886.0
600.8
1022.5
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
HP Cumulative Rainfall for Monsoon season

9. Verification of LRF:-

As per the Long Range Forecast issued on 02nd June, 2025, NW India including Himachal Pradesh most likely to receive above normal rainfall and rainfall likely to be >109% of LPA. However, Himachal Pradesh received 1022.5 mm of actual rainfall during monsoon 2025 against its normal 734.4 mm which comes under excess rainfall category.

10. Dissemination of weather forecast:-

All the weather forecast & warning bulletins, press release and nowcast were issued on timely manner and disseminated to all the stakeholders and users through all the possible modes such as website, e-mail, and our social media groups like WhatsApp, Instagram, X, Facebook, YouTube etc. and Sachet were also issued during any severe weather event.

Note: Forecast/Warning for any day is valid from 0830 hours IST of that day till 0830 hours IST of next day

WARNING

WARNING(TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

PROBABILISTIC FORECAST

Terms	Probability of Occurrence
Unlikely	<25%
Likely	25-50%
Very Likely	50-75%
Most Likely	>75%

SPATIAL

DRY	No Rainfall
ISOLATED	1-25%
FEW	26-50%
MANY	51-75%
MOST	76-100%

RAINFALL INTENSITY

Light	2.5-15.5 mm
Moderate	15.6-64.4 mm
Heavy	64.5-115.5 mm
Very Heavy	115.6-204.4 mm
Extremely Heavy	≥204.5 mm

With Regards

Meteorological Centre
Shimla

For more information kindly visit:

Website-https://mausam.imd.gov.in/shimla/

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