



Government of Nepal  
Ministry of Energy, Water Resource and Irrigation  
Department of Hydrology and Meteorology  
Climate Division (Climate Analysis Section)  
Babarmahal, Kathmandu

27<sup>th</sup> December 2024

**Preliminary Precipitation and Temperature Summary**  
**Post-monsoon Season (October - November), 2024**

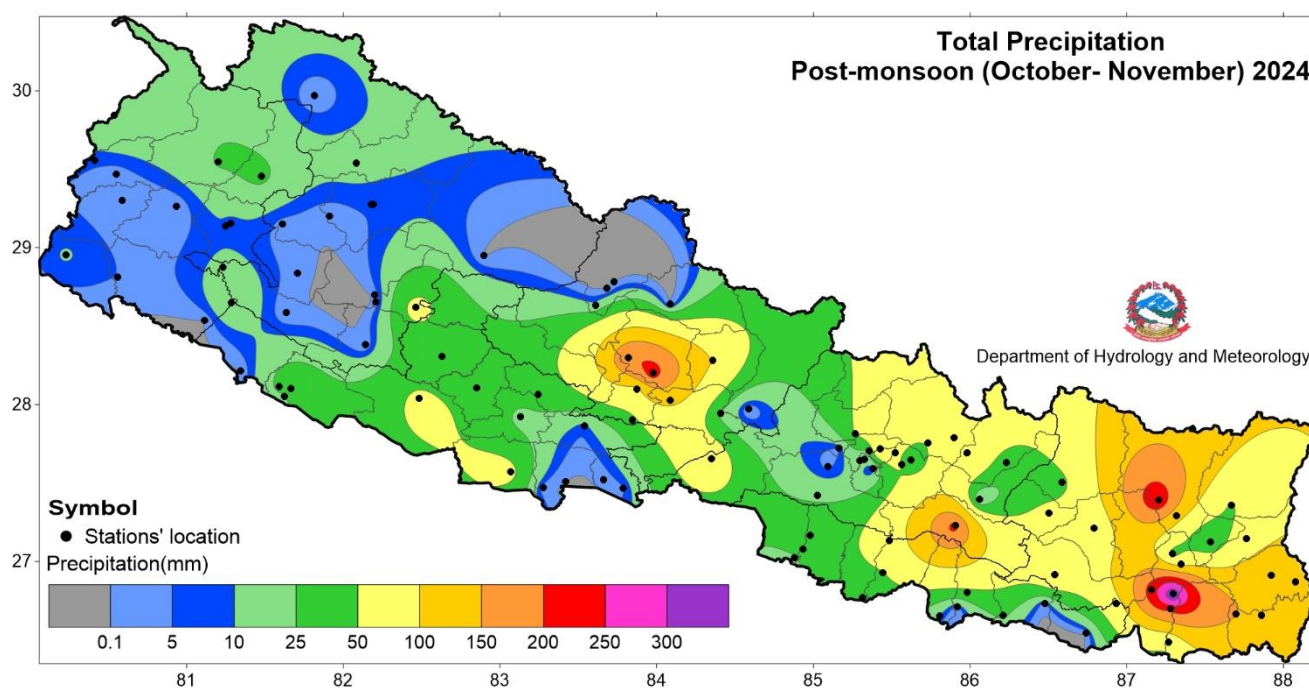
**Highlights**

Precipitation over the country as a whole was 80.4% of the normal precipitation of the season. Most parts of the country recorded above normal maximum temperature while a few parts of Karnali Province, Madhesh Province, Bagamati Province and Koshi Province recorded near-normal to below normal maximum temperature. Northern part of the country recorded below normal minimum temperature while the southern part recorded above normal minimum temperature.

**Precipitation**

Isolated part of the Koshi Province and Gandaki Province recorded precipitation above 200mm while southern part of Sudurpaschim Province and central and north-eastern part of Karnali Province recorded precipitation less than 10 mm (Figure 1). Most part of the country recorded below normal precipitation (Figure 2). However, central part of Gandaki Province, isolated part of Bagamati Province and Koshi Province recorded normal to above normal precipitation.

Dharan Bazar station recorded the highest seasonal precipitation of 381.3 mm with the highest seasonal normal precipitation of 291.9% (Annex 1). Based on the average of 93 stations shown in figure 3, Nepal received 80.4% of the normal precipitation of the season. In general, less than 90% of normal precipitation is considered as below normal, 90 to 110% is considered as near normal, and more than 110% of normal precipitation is considered as above normal precipitation for the season.



**Figure 1: Total precipitation in Post-monsoon 2024.**



Government of Nepal  
Ministry of Energy, Water Resource and Irrigation  
Department of Hydrology and Meteorology  
Climate Division (Climate Analysis Section)  
Babarmahal, Kathmandu

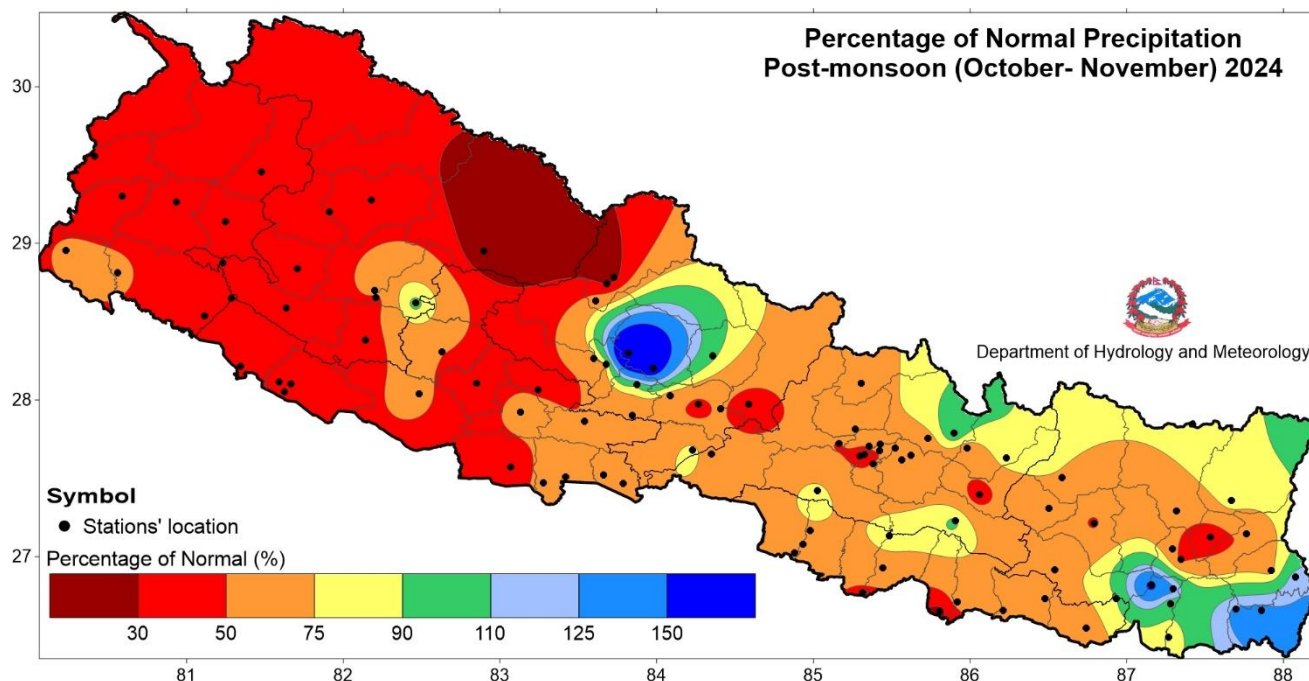


Figure 2: Percentage of normal precipitation in Post-monsoon 2024.

The temporal distribution of seasonal cumulative average of daily precipitation shows that precipitation remained normal-near normal in the first week of October, and below normal for the remaining of the period (Figure 3). The country averaged total precipitation of Post-monsoon 2024 was lower than in 2023. (Figure 4).

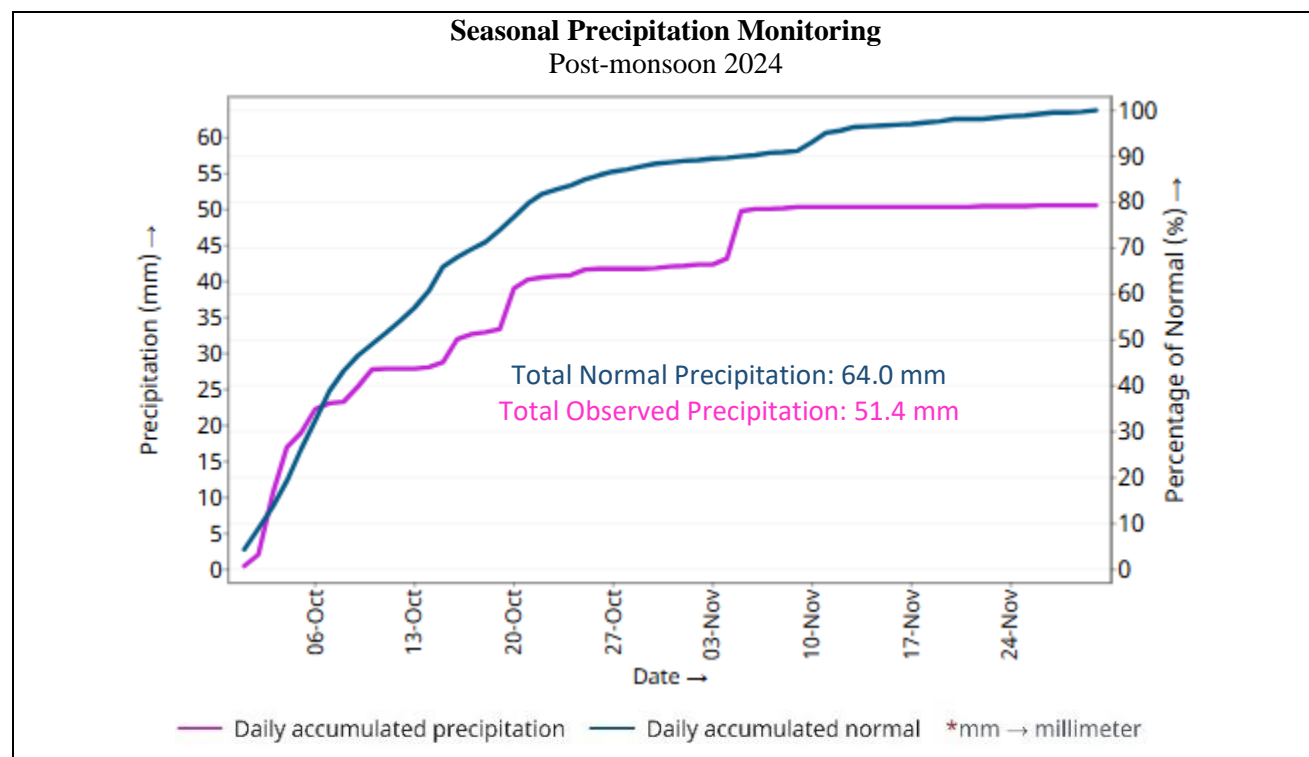
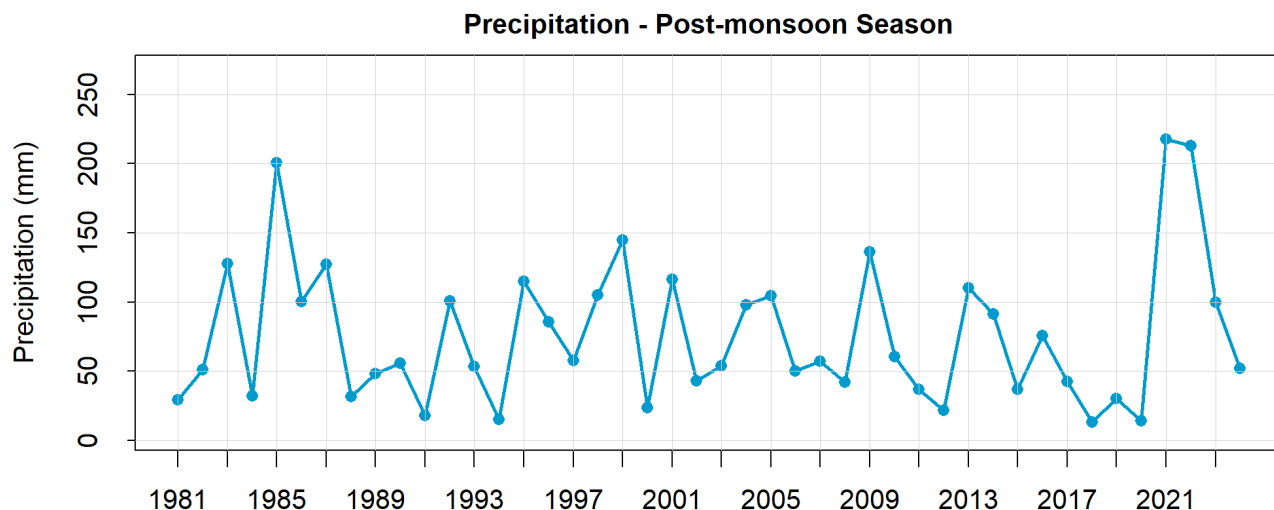


Figure 3: Cumulative average of daily normal and observed precipitation during Post-monsoon 2024.



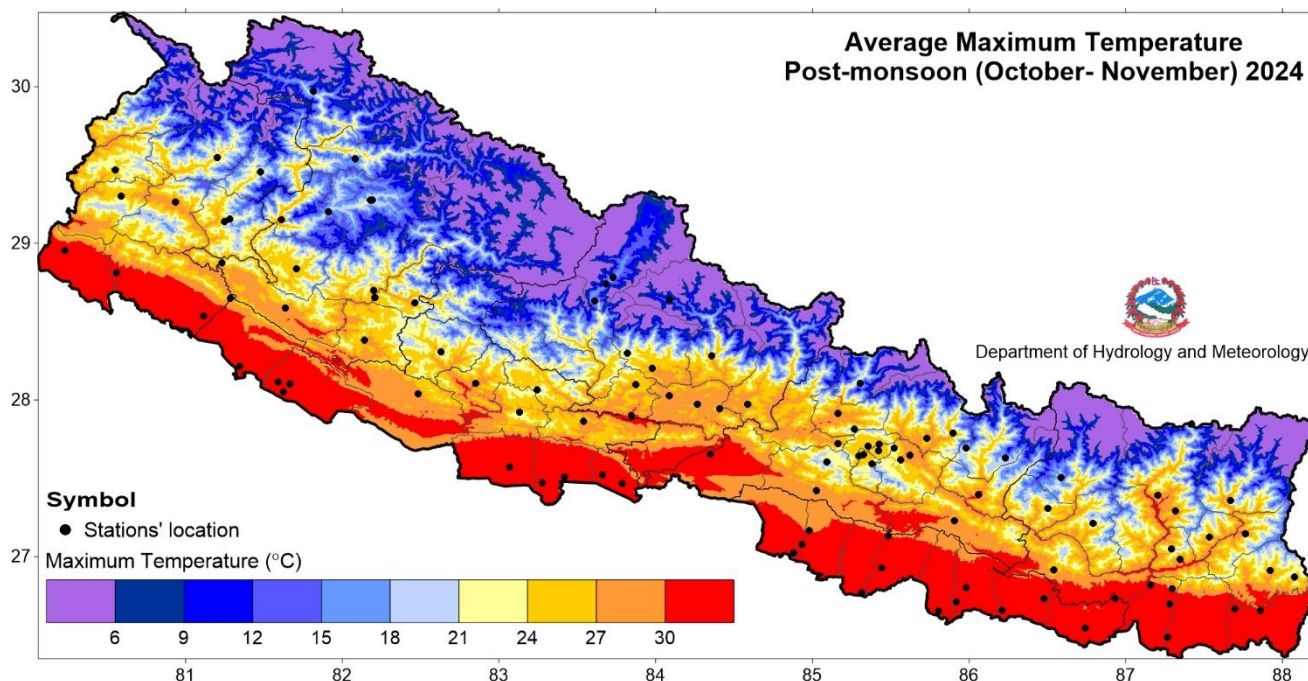
Government of Nepal  
Ministry of Energy, Water Resource and Irrigation  
Department of Hydrology and Meteorology  
Climate Division (Climate Analysis Section)  
Babarmahal, Kathmandu



**Figure 4: Seasonal total precipitation of Post-monsoon season from 1981 to 2024 at 97 stations (average of monthly total precipitation sum at stations having long term data).**

### Maximum Temperature

Northern part of the country recorded seasonal maximum temperature less than  $12^{\circ}\text{C}$  while southern part recorded above  $30^{\circ}\text{C}$  (Figure 5). Most parts of the country recorded above normal maximum temperature while a few parts of Karnali Province, Madhesh Province, Bagamati Province and Koshi Province recorded near-normal to below normal maximum temperature (Figure 6).



**Figure 5: Maximum Temperature in Post-monsoon 2024.**





Government of Nepal  
Ministry of Energy, Water Resource and Irrigation  
Department of Hydrology and Meteorology  
Climate Division (Climate Analysis Section)  
Babarmahal, Kathmandu

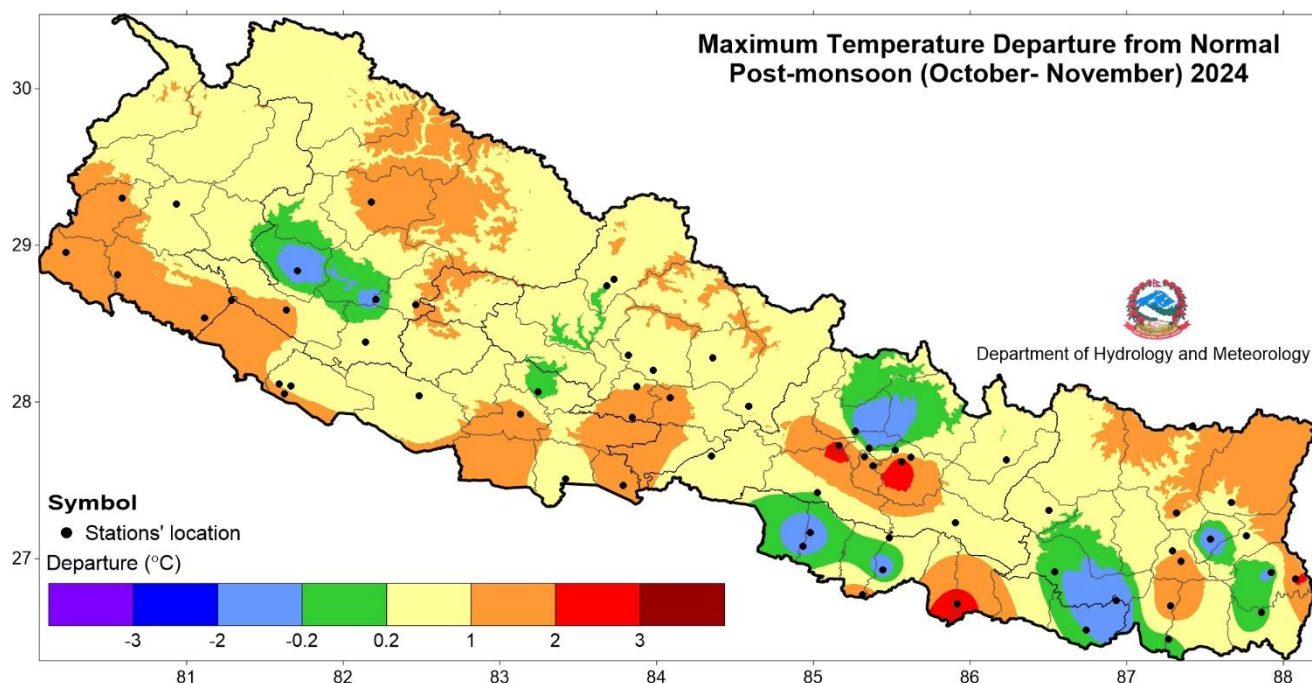


Figure 6: Departure from normal maximum temperature in Post-monsoon 2024.

Janakpur Airport station and Humde station recorded the highest and lowest seasonal maximum temperature of 33.5°C and 13.6°C respectively. Similarly, the highest seasonal anomaly of 3.2°C was recorded at Dhulikhel station and the lowest of -1.1°C was recorded at Phattepur station (Annex 1). The highest daily maximum temperature of 37.0°C was recorded at Birganj station on 8<sup>th</sup> October while the lowest daily maximum temperature of 6.4°C was recorded at Humde Station on 23<sup>th</sup> November. The country averaged maximum temperature of Post-monsoon 2024 was lower than 2023. (Figure 7).

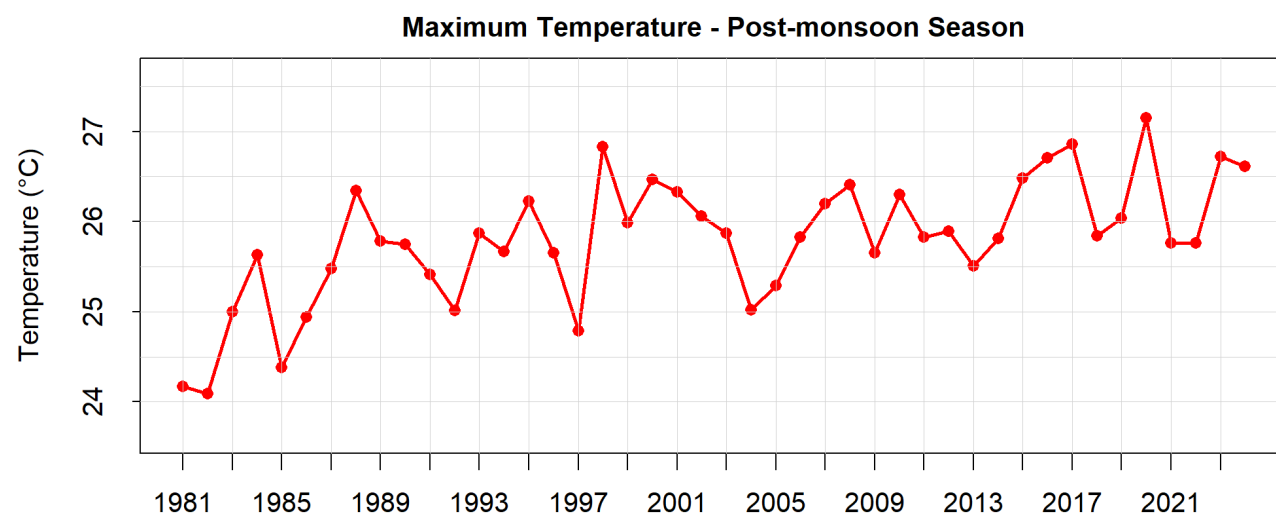


Figure 7: Seasonal average maximum temperature of Post-monsoon season from 1981 to 2024 at 56 stations (average of seasonal average maximum temperature at stations having long term data).



Government of Nepal  
Ministry of Energy, Water Resource and Irrigation  
Department of Hydrology and Meteorology  
Climate Division (Climate Analysis Section)  
Babarmahal, Kathmandu

### Minimum Temperature

The minimum temperature in the most part of Terai remained above 18°C (Figure 8). Northern part of the country recorded below normal minimum temperature while the southern part recorded above normal temperature (Figure 9).

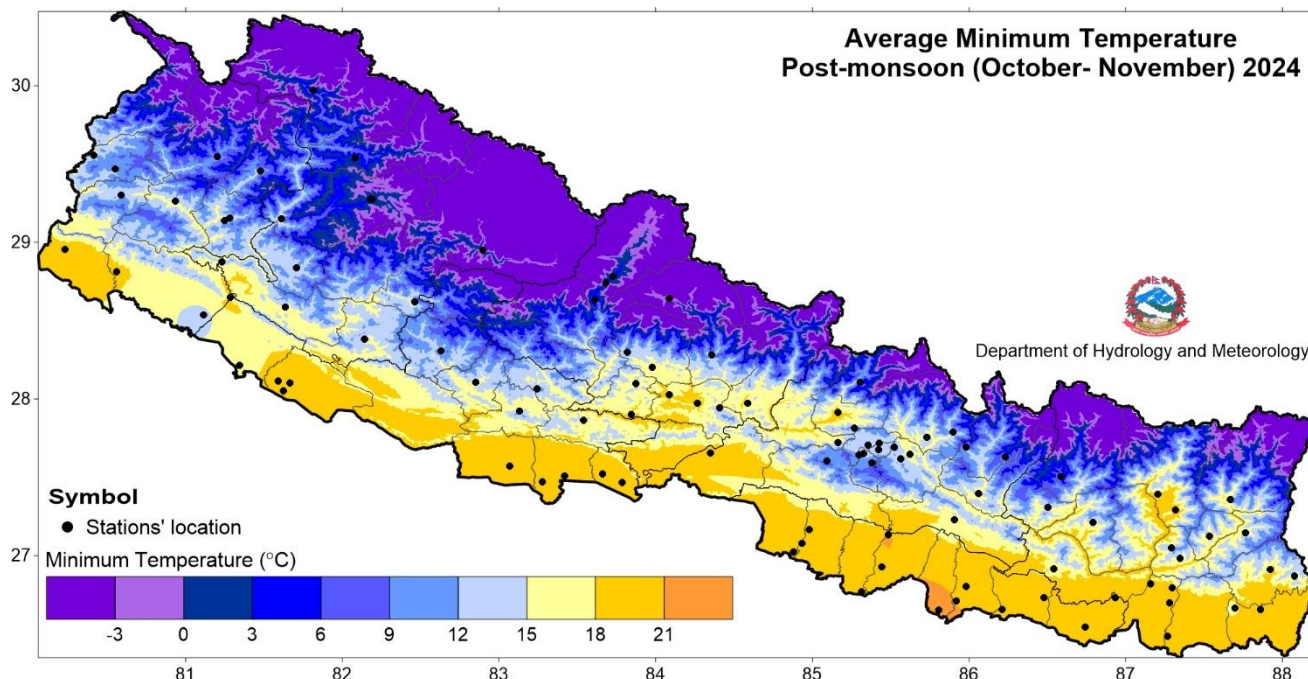


Figure 8: Minimum Temperature in Post-monsoon 2024.

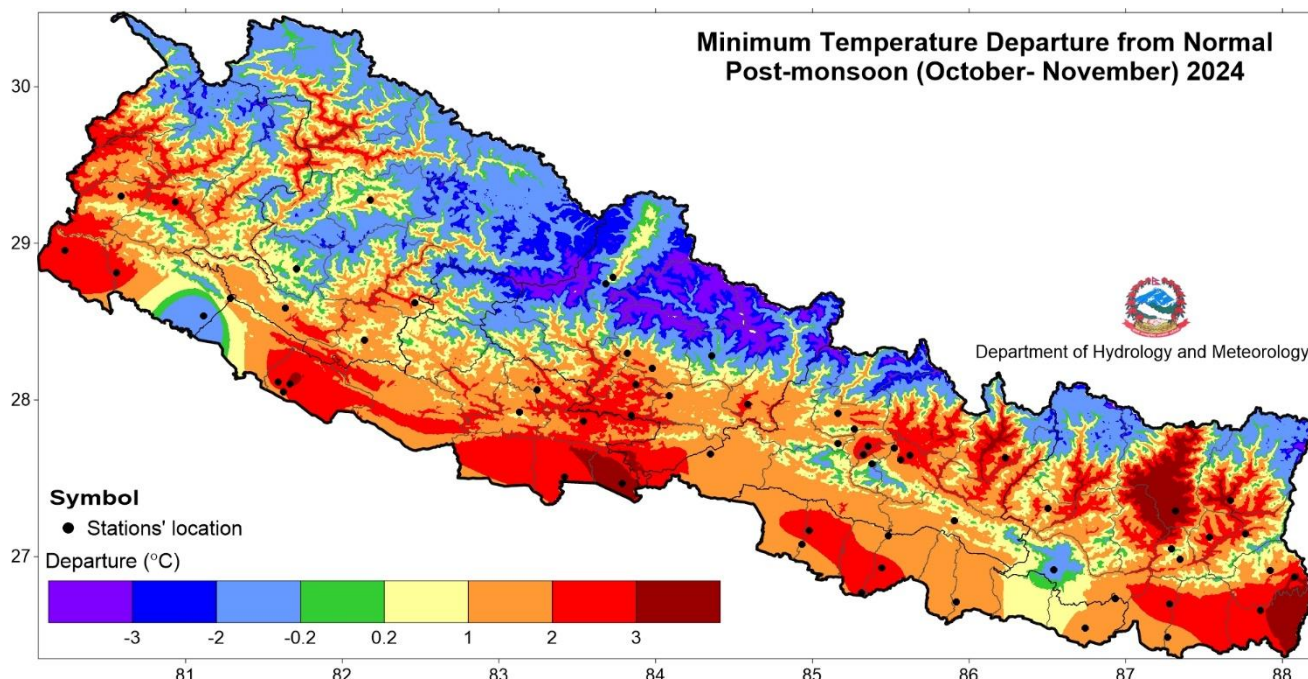
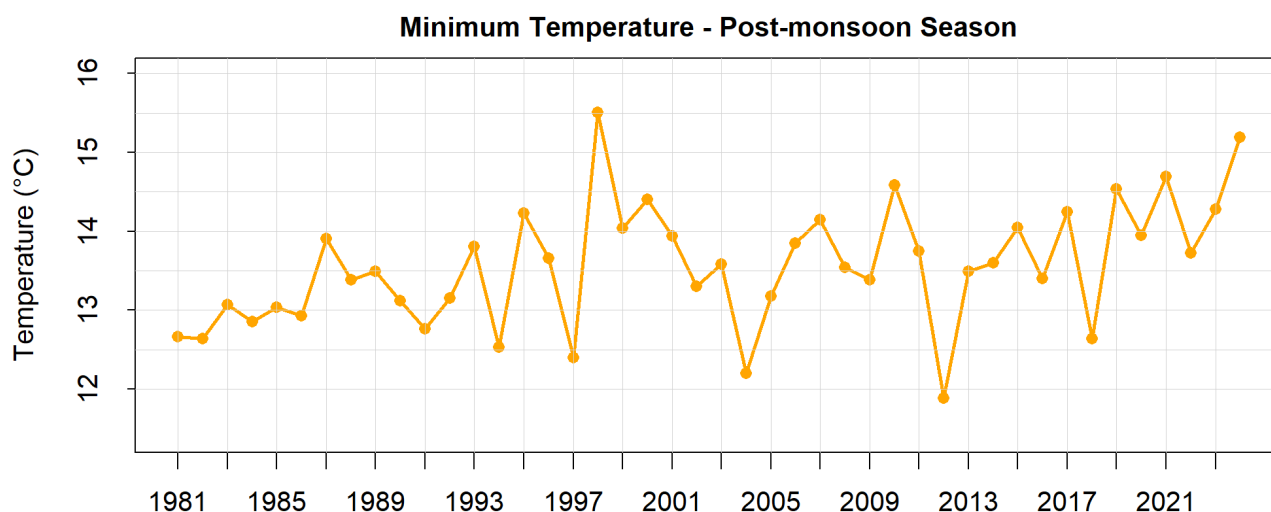


Figure 9: Departure from normal minimum temperature in Post-monsoon 2024.



**Government of Nepal**  
**Ministry of Energy, Water Resource and Irrigation**  
**Department of Hydrology and Meteorology**  
**Climate Division (Climate Analysis Section)**  
Babarmahal, Kathmandu

Jaleshwor station and Humde station recorded the highest and lowest seasonal minimum temperature of 22.1°C and -0.5°C respectively. Similarly, the highest seasonal anomaly of 4.8°C was recorded at Chainpur (East) station and the lowest anomaly of -2.0°C was recorded at Tikapur station (Annex 1). The highest daily minimum temperature of 28.5°C was recorded at Rampur station on 8<sup>th</sup> October while the lowest daily minimum temperature of -8.2°C was recorded at Humde station on 24<sup>th</sup> November. The country's average minimum temperature in Post-monsoon 2024 was higher since 1999 (Figure 10).



**Figure 10: Seasonal average minimum temperature of Post-monsoon season from 1981 to 2024 at 56 stations (average of seasonal average minimum temperature at stations having long term data).**

### Drought

Sudurpaschim Province, Karnali Province and western part of Lumbini Province faced severe drought condition (below normal precipitation by 50%) in Post-monsoon season (Figure 2). Drought has been categorized based on the observed precipitation compared to normal. A drought is defined as moderate, severe and extreme as given in the table below.

**Table 1: Drought category**

S.N.	Percentage of normal precipitation (%)	Drought category
1	50 - 75	Moderate drought
2	30 - 50	Severe drought
3	< 30	Extreme drought





**Government of Nepal**  
**Ministry of Energy, Water Resource and Irrigation**  
**Department of Hydrology and Meteorology**  
**Climate Division (Climate Analysis Section)**  
**Babarmahal, Kathmandu**

**Annex 1: Seasonal precipitation and temperature data of Post-monsoon 2024**

Station	Latitude	Longitude	Elevation	Precipitation		Temperature			
				Total (mm)	Percentage of Normal (%)	Maximum		Minimum	
						Average (°C)	Departure from normal (°C)	Average (°C)	Departure from normal (°C)
Bahrabise	27.7887	85.9000	884	67.4	62.9	28.7	-	15.5	-
Baitadi (Gothalapani)	29.5574	80.4132	1352	6.5	19.3	-	-	12.8	-
Bajura (Martadi)	29.4570	81.4804	1598	28.9	71.2	23.6	-	12.2	-
Bandipur	27.9418	84.4064	991	22.6	43.0	26.4	-	12.5	-
Bhairahawa Airport	27.5068	83.4204	108	0.0	0.0	31.5	0.7	19.9	2.3
Bhaktapur	27.6767	85.4240	1315	-	-	27.2	-	12.9	-
Bijjuwar Tar	28.1035	82.8520	835	43.9	124.4	30.0	-	16.3	-
Biratnagar Airport	26.4840	87.2670	72	56.1	70.6	30.7	-0.1	20.2	1.7
Birganj	27.0232	84.8782	67	16.5	26.3	32.2	-	21.3	-
Chainpur (East)	27.2921	87.3170	1277	121.8	193.0	25.5	1.3	17.4	4.8
Chainpur (Bajhang)	29.5459	81.2011	1405	26.0	-	25.1	-	10.7	-
Changu Narayan	27.7161	85.4268	1502	92.4	141.5	26.6	-	13.7	-
Chapakot	27.8999	83.8459	617	41.9	77.3	29.9	1.9	18.0	2.4
Charikot	27.6902	85.9802	2132	105.3	173.1	19.1	-	9.8	-
Chatara	26.8204	87.1592	105	224.0	139.1	32.3	-	20.4	-
Chaurjhari Tar	28.6540	82.2103	863	2.0	4.9	25.7	-0.5	-	-
Chautara	27.7538	85.7321	1552	51.1	79.6	25.4	-	13.1	-
Chisapani (Karnali)	28.6472	81.2854	201	23.5	46.5	29.7	1.3	19.9	1.7
Dadeldhura	29.3014	80.5878	1879	0.0	0.0	22.3	1.2	10.9	1.1
Dailekh	28.8381	81.7085	1394	2.8	8.6	23.2	-0.8	11.2	-0.5
Damak	26.6623	87.6988	119	150.8	116.1	30.9	-	17.6	-
Daman	27.6044	85.0920	2265	4.2	-	18.9	-	8.5	-
Damauli	27.9737	84.2651	347	-	-	29.7	-	20.0	-
Darchula New	29.8429	80.5388	887	24.8	-	28.6	-	14.9	-
Dhangadhi (Attariya)	28.8127	80.5600	184	4.9	9.3	30.9	1.1	18.7	2.7
Dhankuta	26.9832	87.3460	1192	90.6	196.6	26.8	2.1	14.7	0.9
Dharan Bazar	26.7922	87.2978	310	355.0	271.8	29.8	-	19.9	-
Dhulikhel	27.6161	85.5655	1543	52.0	101.8	23.8	3.2	12.6	2.1
Dhunche	28.1053	85.3077	2005	-	-	19.5	-	9.8	-
Dhumibesi	27.7229	85.1643	991	4.2	8.7	27.8	2.4	16.1	1.1
Diktel	27.2125	86.7919	1612	60.8	130.4	21.7	-	14.1	-
Dipayal (Doti)	29.2621	80.9369	563	0.5	1.1	30.0	0.4	16.4	2.9
Dunai	28.9507	82.8960	2098	0.0	0.0	-	-	2.2	-
Gaida (Kankai)	26.6569	87.8607	107	140.0	105.6	31.3	-0.1	20.2	2.9
Gaur	26.7671	85.3130	77	36.2	81.2	31.5	1.8	20.3	2.1
Ghorai (Dang)	28.0372	82.4842	663	56.7	103.1	28.1	0.6	-	-
Godavari	27.5929	85.3788	1527	3.9	7.6	23.6	1.4	9.9	0.0
Gorkha (Birenchowk)	27.9714	84.5894	724	0.0	0.1	27.3	0.9	17.2	2.1
Gulariya	28.2128	81.3452	126	0.0	0.0	31.2	-	17.1	-
Hardinath	26.8000	85.9833	93	40.8	-	30.4	-	20.6	-
Hetauda N.F.I.	27.4202	85.0252	452	21.4	26.4	28.9	0.2	-	-
Humde	28.6399	84.0881	3401	0.6	-	13.6	-	-0.5	-
Ilam Tea Estate	26.9096	87.9231	1208	136.8	194.9	23.5	-0.3	16.0	0.8
Jajarkot	28.6990	82.2001	1236	1.5	2.4	25.9	-	-	-
Jalesor	26.6522	85.8073	68	9.2	41.6	30.9	-	22.1	-
Janakpur Airport	26.7097	85.9172	76	1.4	2.5	33.5	2.7	20.9	1.9
Jiri	27.6304	86.2321	1877	35.6	42.2	20.6	0.3	9.3	2.8
Jomsom	28.7840	83.7298	2741	0.0	0.0	17.2	0.7	4.9	1.4
Jumla	29.2747	82.1796	2363	6.3	18.2	22.2	1.3	3.3	1.6
Jumla Airport	29.2740	82.1942	2384	5.6	-	21.3	-	2.8	-
Kakani	27.8113	85.2674	2002	50.7	69.0	19.5	-0.2	10.8	0.2
Kanyam Tea Estate	26.8681	88.0783	1570	131.8	110.1	22.9	2.2	13.8	2.7
Karmaiya	27.1330	85.4841	139	75.0	90.5	31.0	0.3	21.2	1.5
Kathmandu Airport	27.7038	85.3562	1337	20.3	40.7	25.3	-0.1	13.9	2.7
Khadbari	27.3911	87.2044	1064	242.7	-	26.5	-	17.2	-
Khairini Tar	28.0270	84.0866	515	110.0	176.3	29.1	1.2	18.7	1.9
Khajura (Nepalgunj)	28.1137	81.5903	129	29.3	64.0	31.0	0.8	18.9	2.4
Khanchikot	27.9221	83.1298	1801	18.9	31.5	22.2	1.6	12.6	0.8
Khokana	27.6438	85.2967	1309	24.1	55.1	25.9	-	11.2	-
Khudi Bazar	28.2822	84.3564	838	100.3	105.9	27.6	0.6	13.8	-0.1
Khumaltar	27.6517	85.3257	1334	14.4	37.3	26.2	1.7	13.6	2.9
Lahan	26.7327	86.4776	110	2.0	3.1	32.8	-	20.4	-
Lete	28.6327	83.6092	2490	13.6	21.8	17.2	-	6.7	-
Libang Gaun	28.3062	82.6323	1314	27.8	54.7	25.9	-	13.0	-
Lumbini	27.4703	83.2761	95	2.5	4.3	30.6	-	20.0	-
Lumle	28.2965	83.8179	1738	200.5	88.1	20.6	0.5	12.2	1.1
Mahendra Nagar	28.9548	80.2305	197	11.2	21.2	30.8	1.3	18.5	2.9
Mangalsen	29.1361	81.2501	1310	10.2	22.1	24.1	-	13.0	-
Manma	29.1488	81.6135	1729	2.6	-	23.5	-	11.6	-
Manthali	27.3947	86.0612	497	7.5	20.1	30.9	-	17.4	-
Manusmara	26.9280	85.4451	90	47.8	74.8	30.0	-0.7	20.6	2.3
Musikot (Rukumkot)	28.6190	82.4625	1412	63.1	65.1	25.4	1.1	13.5	1.7
Nagarkot	27.6933	85.5209	2147	67.7	105.3	19.3	0.1	10.2	0.9
Nagma	29.2006	81.9106	2017	1.0	2.9	20.6	-	-	-
Nepalgunj Airport	28.1006	81.6682	165	45.2	89.7	30.5	0.4	19.9	3.1
Nepalgunj (Reg.Off.)	28.0520	81.6228	141	20.0	45.9	31.8	1.9	19.9	1.8
Nuwakot	27.9150	85.1646	966	-	-	27.1	-	16.8	1.1
Okhaldhunga	27.3081	86.5042	1731	60.2	87.0	22.6	0.4	13.2	1.3
Oli Gaun (Patkani)	29.1559	81.2831	989	7.6	-	20.9	-	12.6	-
Pakhribas	27.0463	87.2925	1720	41.6	70.6	21.3	0.7	11.9	0.3
Panchkhal	27.6451	85.6209	857	24.4	45.4	29.1	1.2	15.5	2.5
Parasi	27.5193	83.6622	112	2.0	2.7	31.1	-	19.3	-
Parwanipur	27.0789	84.9327	87	50.7	83.1	30.5	-0.4	19.4	1.7
Patan new	29.4664	80.5506	1299	1.5	-	26.3	-	12.4	-
Phattepur	26.7305	86.9348	101	81.5	92.3	31.0	-1.1	20.3	1.8
Phidim (Panchther)	27.1437	87.7656	1157	76.7	146.9	27.5	1.0	15.5	1.9
Pokhara Airport	28.2002	83.9795	827	223.8	126.8	27.0	0.8	16.5	1.7
Pusma Camp	28.8755	81.2327	953	12.5	33.6	24.1	-	14.3	-
Rajbiraj	26.5407	86.7425	68	0.7	1.1	30.9	-0.2	20.3	1.4
Rampur	27.6540	84.3508	189	76.8	118.2	30.5	0.3	18.1	1.5
Rara	29.5401	82.0818	2989	14.5	-	17.4	-	3.3	-
Salleri	27.5051	86.5862	2383	41.4	56.7	19.3	-	7.4	-
Salyan Bazar	28.3821	82.1423	1557	0.4	1.1	26.2	0.8	13.5	0.9
Semari	27.4682	83.7861	110	4.0	5.5	30.9	1.2	19.9	3.6
Simara Airport	27.1642	84.98	137	44	60.7	30	-0.55	19.6	2.6
Simikot	29.9715	81.8161	2993	0.01	-	16.6	-	3.7	-
Sindhuli Madhi	27.2281	85.905	556	216.51	229.6	29.2	0.5	16.8	1.1
Siraha	26.6561	86.2117	63	27.8	43.4	31.9	-	20.2	-
Surkhet Airport	28.5879	81.6352	683	0.71	1.9	29	1.45	15	1.8
Syangja	28.0988	83.8722	871	82.44	89	27.7	0.95	17	2.8
Tamghas	28.0636	83.2435	1547	36.11	75.2	21.8	-0.05	12.4	1.2
Tansen	27.8637	83.5387	1183	6.5	12.7	26.6	-	15.5	2.3
Taplejung	27.3586	87.6700	1744	47.8	55.9	22.1	0.9	12.9	2.0
Tarahara	26.6987	87.2786	120	206.9	219.9	32.2	1.8	19.8	2.4
Taulihawa	27.5711	83.0672	106	60.3	176.4	30.5	-	19.2	-
Terhathum	27.1230	87.5362	1525	21.6	59.2	23.5	-1.0	13.6	1.7
Thakmarpha	28.7409	83.6816	2655	0.0	0.0	16.8	0.1	2.5	-0.4
Tikapur	28.5366	81.1150	149	0.0	0.1	31.0	1.2	13.6	-2.0
Udayapur Gadhi	26.9130	86.5397	469	86.5	116.0	28.7	-0.2	18.0	-0.6

*Note:*

- “mm” = millimeter; “temp” = temperature; “-” = Data Not Available.
- This summary is prepared based on the precipitation and temperature received at 109 meteorological stations during Post-monsoon, 2024. Out of 109 stations, 93 stations have normal precipitation data, 62 stations have normal maximum temperature data and 61 stations have normal minimum temperature data. Normal precipitation/temperature is the average of the seasonal precipitation/temperature for period of 1991-2020.