

Babarmahal, Kathmandu

28th November 2024

Preliminary Precipitation and Temperature Summary October, 2024

Highlights

Precipitation over the country as a whole was 75.9% of the normal indicating below normal precipitation. Most parts of Sudurpaschim Province and Karnali Province, and some part of Lumbini Province, Gandaki Province, Bagamati Province and Madhesh Province faced extreme drought condition in October. Maximum temperature was below normal over central and western part of the country. Minimum temperature was below normal over northern part of the country along with eastern part of Madhesh Province and south-western part of Koshi Province.

Synoptic Sequence

During the first week of the month, influence of monsoonal winds and formation of cyclonic circulation over southwest Bangladesh affected the weather of the country. During the second week, western part of Nepal was influenced by western disturbance while rest of the country experienced weak monsoon. Nepal declared the withdrawal of Monsoon on 12th of October. Third and fourth week was influenced by Western disturbances.

Precipitation

Most part of Koshi Province, south-eastern part of Bagamati Province and central part of Gandaki Province recorded precipitation higher than 50 mm, while northern part of Karnali Province and southern part of Sudurpaschim Province recorded precipitation below 10 mm (Figure 1). Below normal precipitation was recorded over most part of the country. However, most part of Koshi Province and isolated part of Bagamati Province, Gandaki Province and Lumbini Province recorded above normal precipitation (Figure 2).

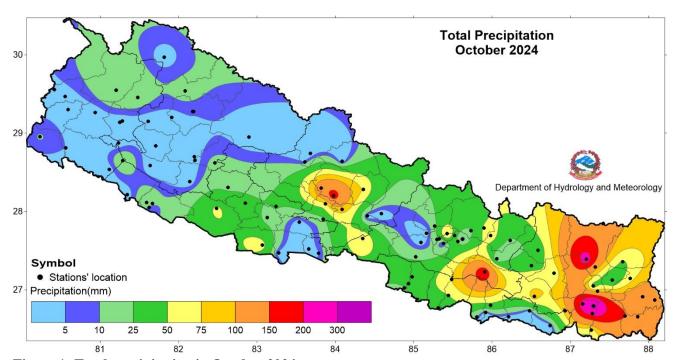


Figure 1: Total precipitation in October 2024.

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Climate Division (Climate Analysis Section)

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Dharan Bazar station recorded the highest monthly precipitation of 341.2 mm with the highest percentage of normal of 288.4% in October (Annex 1). Based on the average of 90 stations (stations with normal precipitation data shown in figure 2), Nepal received 75.9% of the normal precipitation. The highest daily precipitation of 118.3 mm was recorded at Chatara station on 9th October.

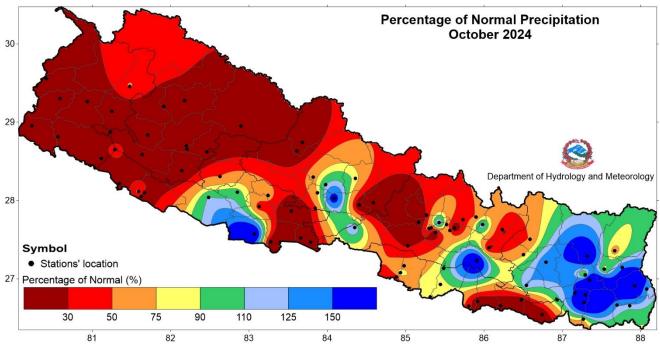


Figure 2: Percentage of normal precipitation in October 2024.

The country averaged total precipitation of October 2024 was lower than in 2022 and 2023 (Figure 3). The temporal distribution of monthly cumulative average of daily precipitation shows that precipitation remained near-normal in the first week of the month and below normal for the remaining of the period. (Figure 4).

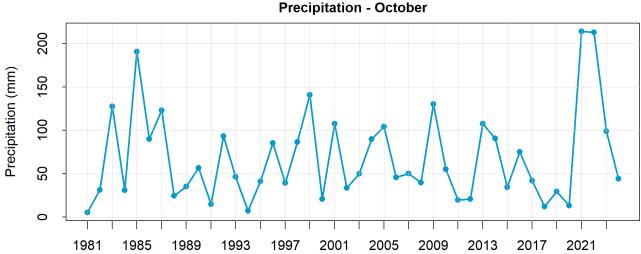


Figure 3: Monthly total precipitation of October from 1981 to 2024 of 95 stations (average of monthly total precipitation sum at stations having long term data).



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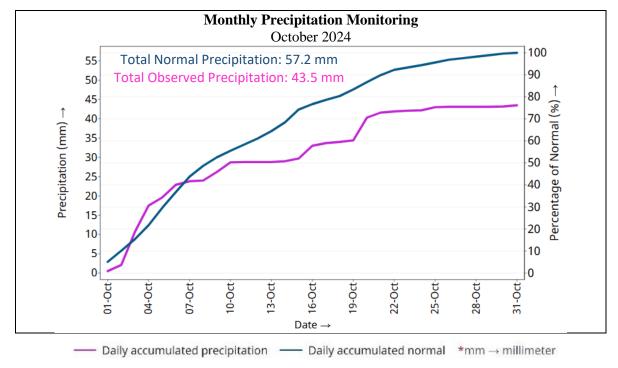


Figure 4: Cumulative average of daily normal and observed precipitation during October 2024.

Maximum Temperature

Maximum temperature of Terai remained above 30°C, reaching over 33°C in some areas, while the northern part of country recorded below 9°C (Figure 5). Northern part of Sudurpaschim Province, most part of Karnali Province, Lumbini Province and Gandaki Province, north-western part of Bagamati Province and southern part of Koshi Province recorded below normal maximum temperature while rest of the country recorded normal to above normal maximum temperature (Figure 6).

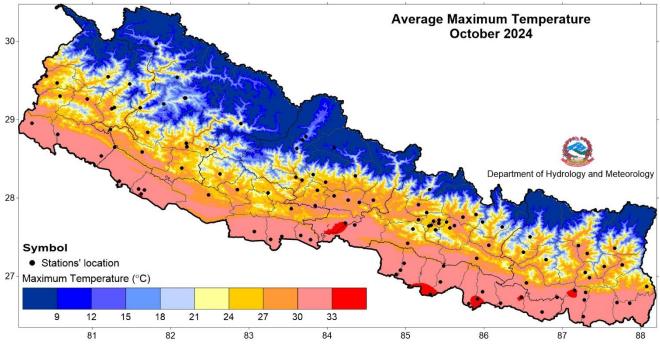


Figure 5: Maximum Temperature in October 2024.



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Janakpur airport station and Humde station recorded the highest and lowest monthly maximum temperature of 35.1°C and 16.5°C respectively. Similarly, the highest monthly anomaly of 4.0°C was recorded at Dhulikhel station and the lowest of -1.3°C was recorded at Ilam Tea Estate station (Annex 1). The highest daily maximum temperature of 37.0°C was recorded at Birgunj station on 8th October while the lowest daily maximum temperature of 14.0°C was recorded at Humde station on 14th October. The country averaged maximum temperature of October 2024 was higher than in 2022 and 2023 (Figure 7).

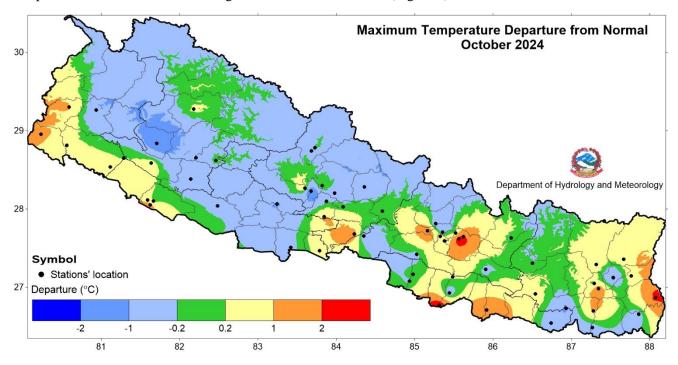


Figure 6: Departure from normal maximum temperature in October 2024.

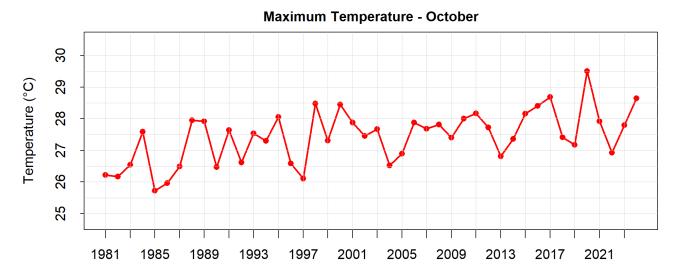


Figure 7: Monthly average maximum temperature of October from 1981 to 2024 of 57 stations (average of monthly average maximum temperature at stations having long term data).



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Minimum Temperature

The minimum temperature in the Terai remained above 18°C, reaching over 21°C in some areas of eastern Terai (Figure 8). Northern part of the country along with eastern part of Madhesh Province and south-western part of Koshi Province recorded below normal minimum temperature while rest of the country recorded normal to above-normal minimum temperature (Figure 9).

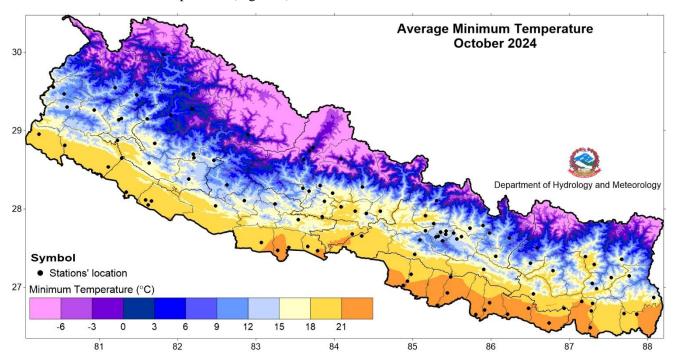


Figure 8: Minimum Temperature in October 2024.

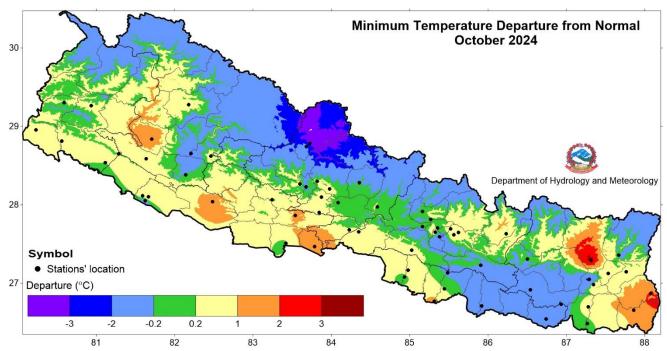


Figure 9: Departure from normal minimum temperature in October 2024.



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Jaleshwor station and Humde station recorded the highest and lowest monthly minimum temperature of 24.8°C and 1.9°C respectively. Similarly, the highest monthly anomaly of 5.8°C was recorded at Chainpur (East) station and the lowest anomaly of -1.7°C was recorded at Tikapur station (Annex 1). The highest daily minimum temperature of 28.5°C was recorded at Rampur station on 8th October while the lowest daily minimum temperature of -2.0°C was recorded at Humde station on 24th October. The country's average minimum temperature in October 2024 was the highest since 1981 (Figure 10).

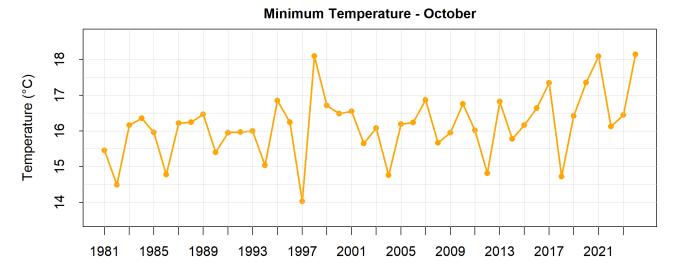


Figure 10: Monthly average minimum temperature of October from 1981 to 2024 of 57 stations (average of monthly average minimum temperature at stations having long term data).

Drought

Most parts of Sudurpaschim Province and Karnali Province, and some part of Lumbini Province, Gandaki Province, Bagamati Province and Madhesh Province faced extreme drought condition (below normal precipitation by 70%) in October (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



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Historical record break

Several stations broke the previous records of October's extreme temperature in this October (Table 2 & 3).

Table 2: List of stations breaking the October's highest daily maximum temperature in October 2024.

S.N.	Station Name	District	Record break maximum temperature (°C)/Date	Previous highest maximum temperature (°C)/Date
1	Janakpur Airport	Dhanusa	37.5/2024-10-09	36.6/2017-10-06
2	Simikot	Humla	28.5/2024-10-29	27.2/2004-10-02
3	Chautara	Sindhupalchowk	30.8/2024-10-02	30.7/2022-10-01
4	Chapakot	Syangja	35.4/2024-10-01	35.0/2022-10-03
5	Humde	Manang	22.4/2024-10-01	20.0/2016-10-01

Table 3: Station breaking October's highest daily precipitation in October 2024.

S.N.	Station Name	District	Record break daily precipitation (mm)/Date	Previous highest precipitation(mm)/Date
1	Khadbari	Sankhuwasabha	78.5/2024-10-04	69.1/2019-10-10



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Annex 1: Monthly precipitation and temperature data of October 2024

				Precipitation							Temperature								
						No.	of Ra	ainy [Days	_		Maxin	num	Minimum					
Station	Latitude	Longitude	Elevation	Total (mm)	% of Normal	≥1.0mm	≥10.0mm	≥25.0mm	≥50.0mm	24hr Highest precipitaiton (mm)/Date	Average (°C)	Departure form normal (°C)	Highest temperature / Date	Average (°C)	Departure form normal (°C)	Lowest temperature / Date	No. of days with maximum temp. $> 30^{\circ}C$		
Bahrabise	27.7887	85.9000	884	52.6	52.6	5	1	1	0	28.5/3	31.9	-	33.5/1	19.0	-	14.2/26	16		
Baitadi (Gothalapani)	29.5574	80.4132	1352	2.5	9.4	1	0	0	0	2.5/11	29.9	-	-	14.6	-	0/29	-		
Bajura (Martadi)		81.4804	1598	17.4	52.6	4	0	0	0	8.2/19	26.4	-	28.5/2	14.6	-	12/21	0		
Bandipur	27.9418		991	0.7	1.5	0	0	0	0	0.7/6	28.8	-	30/3	14.9	-	12.5/23	1		
Bhairahawa Airport	27.5068	83.4204	108	-	-		-	-	-	-	34.0	1.5	36.7/3	23.2	2.6	-	16		
Bhaktapur			1315	-	-		-	-	-	-	29.2	-	-	15.7	-	-	-		
Bijuwar Tar	28.1035	82.8520	835	30.6	101.3	2	1	1	0	27.4/6	32.5	-	34/2	19.2	-	16.4/24	16		
Biratnagar Airport	26.4840		72	55.9	73.9	3	2	1	0	41.2/3	31.4	-0.5	-	23.3	1.9	19.5/22	-		
Birganj	27.0232		67	16.5	30.2	2	1	0	0	11.3/20		-	37/8	24.1	-	21.5/20	16		
Chainpur (East)	27.2921	87.3170	1277	117.2	221.9	3	1	1	1	100.1/16		2.5	30/1	20.4	5.8	19/4	2		
Chainpur (Bajhang)	29.5459	81.2011	1405	26.0	-	3	1	0	0		27.6	-	29.8/2	13.9	-	10/23	0		
Changu Narayan	27.7161	85.4268	1502	82.8	141.3	1	1	1	1	82.8/3	29.2	-	30.5/1	16.3	-	13.5/22	5		
Chapakot	27.8999		617	18.5	39.4	1	1	0	0	18.5/21	33.4	3.4	35.4/2	20.3	2.2	17.2/22	16		
Charikot	27.6902		2132	65.2	125.5	6	2	0	0		21.6	-	24.3/1	12.0	_	9/21	0		
Chatara			105	220.6	152.5	9	4	3	1	118.3/9		_	35.4/1	23.0	-	20.6/21	16		
Chaurihari Tar	28.6540		863	2.0	5.9	1	0	0	0	2/7	28.6	0.5	30.5/1	-	-	-	4		
Chautara	27.7538		1552	21.8	36.8	3	1	0	0	13.5/20		-	30.8/2	15.3	-	10.6/21	3		
Chisapani (Karnali)			201	22.9	48.2	2	1	0	0	21.9/6	32.9	2.2	34.5/3	22.5	2.0	20.5/14	16		
Dadeldhura			1879	0.0	0.0	0	0	0	0	NR	24.8	2.1	27.4/2	13.2	1.5	10.6/21	0		
Dailekh		81.7085	1394	0.0	0.0	0	0	0	0	NR	26.6	0.9	28.6/2	13.3	0.2	-	0		
Damak	26.6623		119	150.8	126.5	4	4	2	1	72.6/3	32.1	-	34/1	20.4	-	16/22	16		
Daman	27.6044		2265	1.0	-	1	0	0	0	1/6	21.6	-	25.3/2	10.9	-	8.7/22	0		
Damauli			347	-	-		-	-	-	-	33.1	-	-	22.1	-	-	-		
Darchula New	29.8429	80.5388	887	7.8	-	4	0	0	0	2.8/5	31.7	-	33.6/2	17.3	-	13.2/23	16		
Dhangadhi (Attariya)	28.8127	80.5600	184	4.9	9.8	1	0	0	0	4.4/26	33.7	2.0	-	22.1	3.1	19/23	-		
Dhankuta		87.3460	1192	90.6	257.4	3	2	1	1		28.0	1.9	30.1/1	17.1	1.3	14.2/21	1		
Dharan Bazar			310	341.2	288.4	10	9	6	2			-	32.2/8	22.1	-	19.2/21	14		
Dhulikhel			1543	29.0	62.9	3	1	0	0	24/22	26.4	4.0	29.5/2	15.0	2.3	12/21	0		
Dhunche	28.1053	85.3077	2005	-	-		-	-	-	-	22.5	-	25/2	11.9	-	9/21	0		
Dhunibesi		85.1643	991	0.0	0.0	0	0	0	0	NR	30.5	3.1		18.5	1.4	16.1/21	11		
Diktel			1612	52.5	144.9	3	2	1	0		23.5	-	25.4/10		-	14/21	0		
Dipayal (Doti)	29.2621		563	0.0	0.0	0	0	0	0	NR	32.8	1.2	34.3/2	19.6	3.1	14.5/23	16		
Dunai		82.8960	2098	0.0	0.0	0	0	0	0	NR	-	-	-	5.5	-	2.5/16	-		
Gaida (Kankai)		87.8607	107	140.0	115.8	8	6	1	1	53.2/16	32.4	-0.1	34.5/1	23.0	3.1	19/22	16		
Gaur		85.3130	77	36.2	86.4	4	1	0	0		33.5	2.2	35.3/5	22.9	1.9	20.3/21	16		
Ghorai (Dang)		82.4842		54.1	111.8	1	1	1	1	53.6/6			32/2	19.8	3.5	18/12	13		
Godavari		85.3788		3.9	8.6	2	0	0	0		26.3	2.6	28.5/1	12.4	0.0	9.5/22	0		
Gorkha (Birenchowk)	27.9714		724	0.0	0.1	0	0	0	0		31.0	2.7	32.5/1	19.6	1.8	17/23	14		
Gulariya		81.3452		0.0	0.0	0	0	0	0		33.6	-	34.8/3	20.6	-	17.5/23	16		
Hardinath		85.9833		40.3	-	1	1	1	0	39.5/20		-	33.2/9	23.2	-	19.8/20	16		
Hetauda N.F.I.		85.0252		21.4	27.1	2	1	0	0	19.8/4		0.7	32.4/8	20.5	2.2	16.7/22	13		
Humde			3401	0.6	-	0	0	0	0	0.6/4	16.5	-	22.4/1	1.9	-	-2/24	0		
Ilam Tea Estate	26.9096		1208	136.8	229.9	4	3	1	1	104.8/3		-1.3	25.4/2	17.7	1.1	15.6/25	0		
Jajarkot			1236	1.5	3.0	1	0	0	0		28.5	-	31/2	-	-	-	3		



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				Precipit				on									
						No. of Rainy Days						Maxin		empe			
Station	Latitude	Longitude	Elevation	Total (mm)	% of Normal	≥1.0mm	≥10.0mm	≥25.0mm	>50.0mm	24hr Highest precipitaiton (mm)/Date	Average (°C)	Departure form normal (°C)	Highest temperature / Date	Average (°C)	Departure form normal (°C)	Lowest temperature / Date	No. of days with maximum temp. > 30°C
Jalesor	26.6522	85.8073	68	9.2	42.6	2	0	0	0	8/3	33.1	-	35/2	24.8	-	23/20	16
Janakpur Airport	26.7097	85.9172	76	1.4	2.6	1	0	0	0	1.4/20	35.1	3.1	-	23.9	1.7	21/20	-
Jiri	27.6304		1877	21.3	28.9	6	1	0	0	10.2/4	23.2	1.4	25.5/1	11.9	2.5	7.7/21	0
Jumla	29.2747		2363	6.3	24.6	2	0	0	0	4.5/20	25.5	3.1	27.4/1	7.6	3.0	2.6/13	0
Jumla Airport			2384	5.6	-	2	0	0	0	3.5/20	24.7	-	26.7/1	6.3	-	1.6/13	0
Kakani			2002	17.5	26.4	2	1	0	0	15.8/6	21.3	0.2	23.7/2	13.0	0.5	10.3/21	0
Kanyam Tea Estate			1570	125.8	125.7	7	3	1	1	73/3	23.1	0.9	25/10	15.6	2.5	12/30	0
Karmaiya		85.4841	139	75.0	96.0	3	3	2	0	32/20	32.5	0.5	33.5/7	23.5	1.3	20.5/20	16
Kathmandu Airport		85.3562	1337	-	-		-	-	-	-	28.8	1.6	31.2/1	16.4	2.5	13.8/21	3
Khadbari	27.7030		1064	234.4	_	12	5	4	2	78.5/4	28.3	-	31.5/1	19.3	2.3	17/24	2
Khairini Tar		84.0866	515	86.8	175.4	7	4	1	0	30.4/20	32.3	2.3	34.5/1	20.7	1.5	16.9/21	15
		81.5903	129	24.5	57.5	1	1	0	0	24.5/25		1.8	35/3	20.7	2.6	20/13	16
Khajura (Nepalganj)						2		0			33.7		27.9/6				
Khanchikot	27.9221	83.1298	1801	18.9	37.5		1		0	15.4/17	25.1	3.1		14.8	1.3	12.8/17	0
Khokana	27.6438		1309	24.1	63.4	1	1	0	0	24.1/3	28.2	-	29.8/1	14.5	-	10.7/22	0
Khudi Bazar		84.3564	838	73.3	85.4	8	2	1	0	25.7/9	30.0	1.4	31.5/1	16.0		13/21	11
Khumaltar		85.3257	1334	14.4	42.1	1	1	0	0	14.2/3	28.8	2.7	31/1	16.5	2.9	13/22	3
Lahan		86.4776	110	2.0	3.4	1	0	0	0	2/3	34.4	-	36/9	23.1	-	19.5/22	16
Lete			2490	5.8	12.0	3	0	0	0	3/18	20.3	-	22.5/2	9.0	-	5.5/21	0
Libang Gaun		82.6323	1314	21.3	51.0	1	1	0	0	21/7	28.5	-	31/1	15.6	-	12/23	2
Lumbini		83.2761	95	2.5	4.7	1	0	0	0	2.5/22	33.0	-	34.5/7	23.4	-	21/16	16
Lumle		83.8179	1738	131.9	63.4	16	4	1	0	49.5/4	22.7	1.1	25.5/2	14.2	1.3	10.6/21	0
Mahendra Nagar		80.2305	197	11.2	23.1	1	1	0	0	11.2/6	33.7	2.3	34.8/3	21.7	3.1	19/23	16
Mangalsen		81.2501	1310	0.0	0.0	0	0	0	0	NR	26.4	-	28.4/14		-	12.4/23	0
Manma		81.6135	1729	0.0	-	0	0	0	0		25.6	-	27.5/2	13.8	-	11.7/23	0
Manthali		86.0612	497	7.5	22.7	1	0	0	0	7.5/20	33.0	-	35.3/1	20.2	-	16.5/22	16
Manusmara	26.9280		90	47.8	79.3	2	2	1	0	34.4/20	32.0	-0.1	33.8/7	23.5	2.0	20/20	16
Musikot (Rukumkot)		82.4625	1412	14.1	17.2	3	0	0	0	6.2/8	28.3	2.5	30.2/3	16.1	2.1	13.5/23	1
Nagarkot			2147	35.6	63.9	4	1	1	0	28/3	21.6	1.0	24.1/2	12.3	1.1	9.5/21	0
Nagma		81.9106		1.0	4.0	1	0	0	0	1/20	22.9	-	26.5/1	10.1	-	6.6/25	0
Nepalgunj Airport		81.6682		11.4	24.3	1	1	0	0				34.5/14			20.8/13	16
Nepalgunj (Reg.Off.)		81.6228	141	6.5	15.9	1	0	0	0	6.5/25	34.7	3.0	36/3	23.0		21/13	16
Nuwakot		85.1646	966	-	-		-	-	-	-	30.0	-	-	19.2	1.3	-	-
Okhaldhunga		86.5042	1731	44.6	72.9	4	1	1	0	30.8/4	24.7	1.1	26.6/1	15.3	1.6	13/21	0
Oli Gaun (Patkani)		81.2831	989	0.0	-	0	0	0	0	0.01/27	29.0	-	32.6/3	15.6	-	12.6/24	6
Pakhribas	27.0463	87.2925	1720	40.0	77.9	2	1	1	0	36.3/4	22.5	0.5	24.2/1	14.0	0.5	10.6/17	0
Panchkhal	27.6451	85.6209	857	2.6	5.5	1	0	0	0	1.7/3	32.0	2.3	33/1	18.2	2.3	14.7/21	15
Parasi	27.5193	83.6622	112	2.0	2.9	1	0	0	0	2/20	33.5	-	34.5/3	22.3	-	20/23	16
Parwanipur	27.0789	84.9327	87	50.7	88.9	2	1	1	0	41/20	32.5	0.2	33.5/8	22.3	1.4	19.5/20	16
Patan new	29.4664	80.5506	1299	1.5	-	1	0	0	0	1.5/5	28.8	-	31/2	14.9	-	11.5/23	3
Phattepur	26.7305	86.9348	101	81.5	101.0	3	1	1	1	66/20	32.5	-0.8	37/11	23.0	1.7	20/20	16
Phidim (Panchther)		87.7656	1157	66.2	147.4	3	2	1	0	49.1/3	29.6	1.5	32/1	18.2	2.5	15/21	9
Pokhara Airport	28.2002	83.9795	827	174.8	109.8	9	6	3	0	44.5/4	29.6	1.7	31.5/2	18.8	1.6	15.2/21	4
Pusma Camp	28.8755	81.2327	953	0.0	0.0	0	0	0	0	NR	27.8	-	29.2/1	16.9	-	13.8/21	0
Rajbiraj	26.5407	86.7425	68	0.7	1.1	0	0	0	0	0.7/20	32.3	-0.1	34.3/8	22.9	1.1	19.5/22	16
Rampur		84.3508	189	76.1	128.1	5	1	1	1	55.5/4	33.3	1.3	35/3	21.7	1.9	17.5/23	16
Rara	29.5401	82.0818	2989	14.5	-	2	1	0	0	11.5/22	20.3	-	22.5/1	5.6		2/23	0



Babarmahal, Kathmandu

			Prec	ipitati	on			Temperature									
						No.	of Ra	ainy I	Days	_		Maxin	num		Minim	num	
Station	Latitude	Longitude	Elevation	Total (mm)	% of Normal	≥1.0mm	≥10.0mm	≥25.0mm	≥50.0mm	24hr Highest precipitaiton (mm)/Date	Average (°C)	Departure form normal (°C)	Highest temperature / Date	Average (°C)	Departure form normal (°C)	Lowest temperature / Date	No. of days with maximum temp. > 30°C
Salleri	27.5051	86.5862	2383	30.5	52.3	2	2	0	0	17/3	22.2	-	24.5/1	9.7	-	7/21	0
Salyan Bazar	28.3821	82.1423	1557	0.0	0.1	0	0	0	0	0.01/6	27.9	1.0	29.9/2	15.6	1.0	13.2/19	0
Semari	27.4682	83.7861	110	4.0	5.9	1	0	0	0	4/21	33.6	1.7	35/3	23.0	4.0	20/23	16
Simara Airport	27.1642	84.9800	137	44.0	64.7	2	1	1	0	38.4/20	32.4	0.5	33.3/7	22.1	2.0	19.5/22	16
Simikot	29.9715	81.8161	2993	0.01	-	0	0	0	0	0.01/22	20	-	22/1	5.6	-	2.5/23	0
Sindhuli Madhi	27.2281	85.905	556	194.01	222	11	6	3	0	42.2/20	31	0.7	32/1	20	1.3	16/22	12
Siraha	26.6561	86.2117	63	0.8	1.303	0	0	0	0	0.8/3	33	-	35/9	22	-	19.5/22	16
Surkhet Airport	28.5879	81.6352	683	0.11	0.356	0	0	0	0	0.1/5	32	2.6	33.7/2	18	2.5	15.2/23	16
Syangja	28.0988	83.8722	871	63.43	73.16	7	3	0	0	19.1/4	31	2.5	33.6/2	19	2.6	14.6/21	13
Tamghas	28.0636	83.2435	1547	26.71	63.44	1	1	1	0	26.7/6	24	0.5	26/1	15	1.4	11.8/21	0
Tansen	27.8637	83.5387	1183	0	0	0	0	0	0	NR	29	-	33/11	18	2.4	14.2/21	5
Taplejung	27.3586	87.67	1744	46.11	63.25	7	1	0	0	13.3/5	24	1.5	27.1/2	15	2.2	12/21	0
Tarahara	26.6987	87.2786	120	206.92	248.7	5	4	4	2	74.2/2	33	1.6	35.5/1	23	2.3	19.5/21	16
Taulihawa	27.5711	83.0672	106	60.11	213.9	1	1	1	1	59.3/6	33	-	34.1/2	22	-	20.4/23	16
Terhathum	27.123	87.5362	1525	21.61	81.55	2	1	0	0	18/5	25	-0.8	28/1	16	2	12.5/21	0
Thakmarpha	28.7409	83.6816	2655	0.0	0.0	0	0	0	0	NR	20.0	1.9	22/1	5.2	0.5	1.2/21	0
Tikapur	28.5366	81.1150	149	0.0	0.1	0	0	0	0	0.01/1	34.0	2.3	35.5/3	17.1	-1.7	12/29	16
Udayapur Gadhi	26.9130	86.5397	469	86.0	126.3	7	4	0	0	24.5/2	29.2	-0.8	31/1	19.9	-0.9	0/19	5

Note:

- "mm" = millimeter; "temp" = temperature; "-" = Data Not Available; "NR" = No Precipitation.
- This summary is prepared based on the precipitation and temperature received at 112 meteorological stations during October, 2024. Out of 112 stations, 90 stations have normal precipitation data, 61 stations have normal maximum and 62 stations have normal minimum temperature data. Normal precipitation/temperature is the average of the monthly precipitation/temperature for the period of 1991-2020.
- 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 month.