

Babarmahal, Kathmandu

12th September 2024

Preliminary Precipitation and Temperature Summary August, 2024

Highlights

Precipitation over the country as a whole was 103.1% of the normal indicating near-normal precipitation. Above normal maximum temperature and minimum temperature was observed across most part of the country.

Synoptic Sequence

Low pressure areas formed over the Bay of Bengal and over Madhye Pradesh and a number of cyclonic circulations affected weather of Nepal.

Precipitation

North-eastern part of Koshi Province, Northern part of Bagamati Province, Central part of Gandaki Province and isolated part of Sudurpaschim Province recorded precipitation greater than 600 mm while northern part of Karnali Province and north-western part of Gandaki Province recorded precipitation less than 100 mm (Figure 1). Most part of the country recorded normal to above normal precipitation while eastern part of Koshi Province, eastern part of Lumbini Province, central part of Madhesh Province and Gandaki Province, northern part of Bagamati Province and southern part of Sudurpaschim recorded below normal precipitation (Figure 2).

Lumle station recorded the highest monthly precipitation of 897.8 mm while Jomsom station recorded the lowest monthly precipitation of 50.5 mm. Similarly, Manthali station recorded the highest percentage of normal of 186.3% while Semari station recorded the lowest percentage of normal of 46.1% (Annex 1). Based on the average of 98 stations (stations with normal precipitation data shown in figure 2), Nepal received 103.1% of the normal precipitation. The highest daily precipitation of 216.5 mm was recorded at Hardinath station on 6th August.

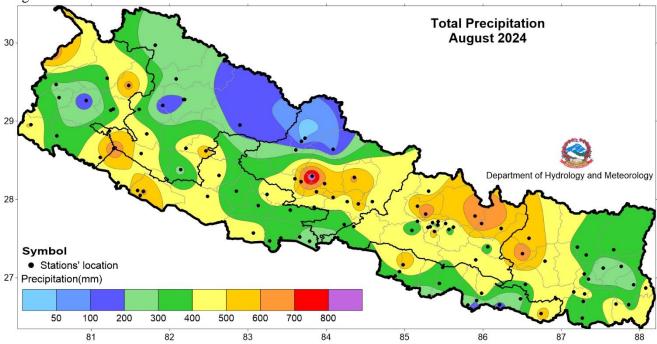


Figure 1: Total precipitation in August 2024.



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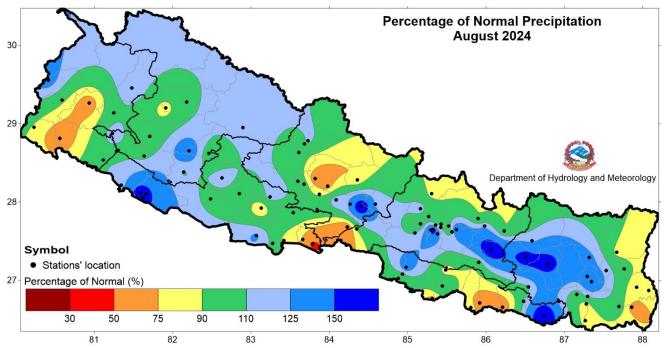


Figure 2: Percentage of normal precipitation in August 2024.

The temporal distribution of monthly cumulative average of daily precipitation shows that precipitation was above normal during August (Figure 3). The country averaged total precipitation of August 2024 was less than in 2023 (Figure 4).

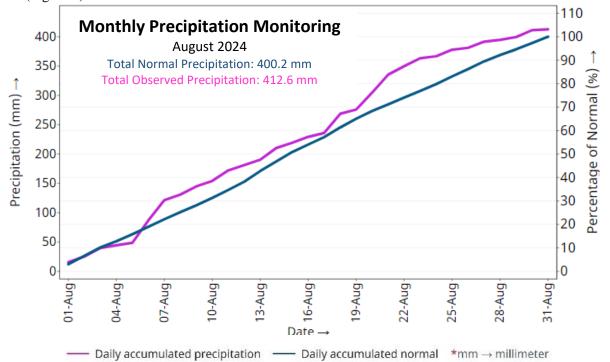


Figure 3: Cumulative average of daily normal and observed precipitation during August 2024.



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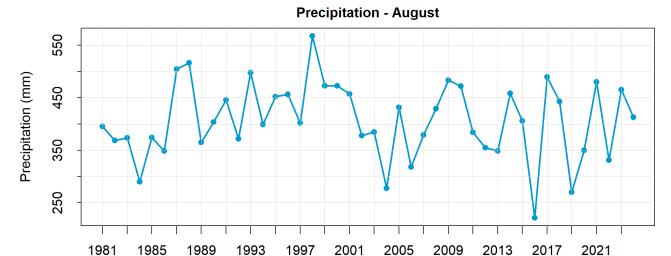


Figure 4: Monthly total precipitation of August from 1981 to 2024 at 97 stations (average of monthly total precipitation sum at stations having long term data).

Maximum Temperature

The maximum temperature in the most part of Terai remained above 33°C (Figure 5). Most part of the country recorded above normal maximum temperature, however, a few isolated parts recorded below normal temperature (Figure 6). Birgunj station and Humde station recorded the highest and lowest monthly maximum temperature of 35.6°C and 19.2°C respectively. Similarly, the highest monthly anomaly of 2.4°C was recorded at Dhulikhel station and the lowest of -0.9°C was recorded at Semari station (Annex 1).

The highest daily maximum temperature of 39.5°C was recorded at Dumkauli station on 4th August while the lowest daily maximum temperature of 16.0°C was recorded at Dumkauli station on 27th August. The country averaged maximum temperature of August 2024 was higher than in 2023 (Figure 7).

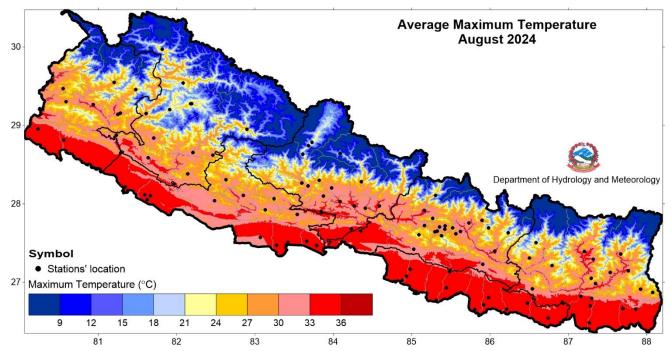


Figure 5: Maximum Temperature in August 2024.



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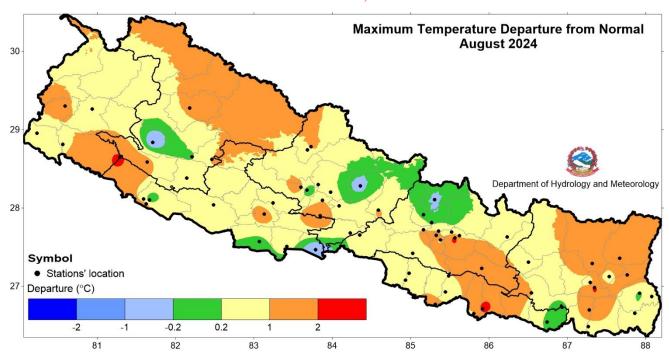


Figure 6: Departure from normal maximum temperature in August 2024.

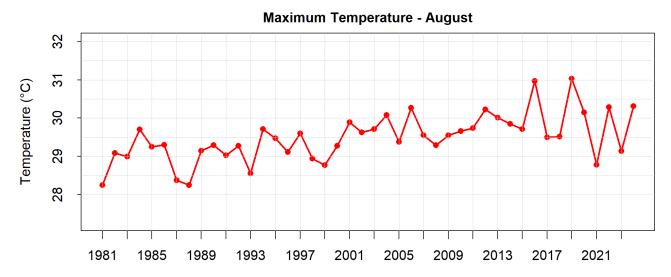


Figure 7: Monthly average maximum temperature of August from 1981 to 59 stations (average of monthly average maximum temperature at stations having long term data).

Minimum Temperature

The minimum temperature in the Terai remained above 24°C, reaching over 27°C in some areas (Figure 8). Most part of Koshi Province, Lumbini province, Karnali Province and Sudurpaschim Province, eastern part of Madhesh Province, western part of Bagamati Province recorded above normal minimum temperature while rest of the country recorded normal to below normal minimum temperature (Figure 9).

Jaleshwor station and Humde station recorded the highest and lowest monthly minimum temperature of 27.4°C and 10.2°C respectively. Similarly, the highest monthly anomaly of 2.4°C was recorded at Chainpur (East)

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station and the lowest anomaly of -2.9°C was recorded at Tikapur station (Annex 1). The highest daily minimum temperature of 30.0°C was recorded at Jaleshwor station on 31st August while the lowest daily minimum temperature of 7.9°C was recorded at Humde station on 29th August. The country's average minimum temperature in August 2024 was higher than in 2023 (Figure 10).

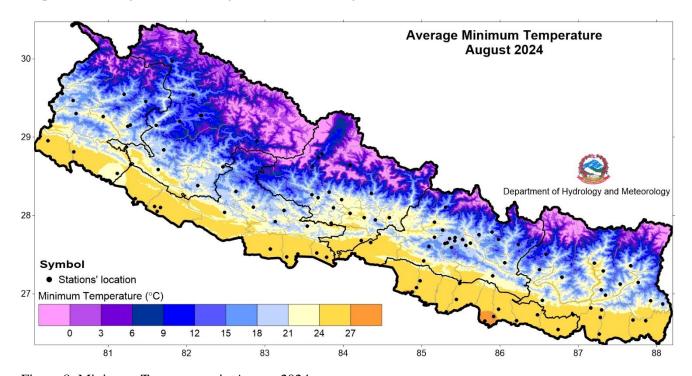


Figure 8: Minimum Temperature in August 2024.

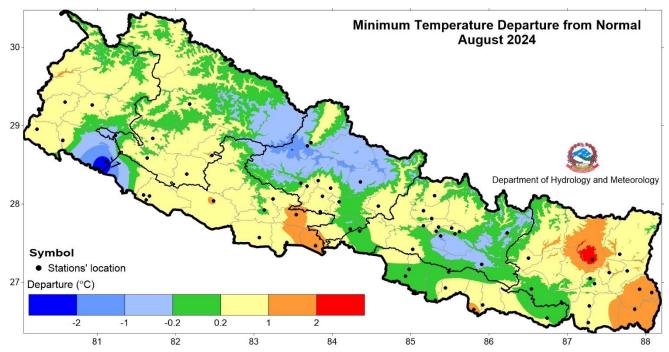


Figure 9: Departure from normal minimum temperature in August 2024.



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Minimum Temperature - August

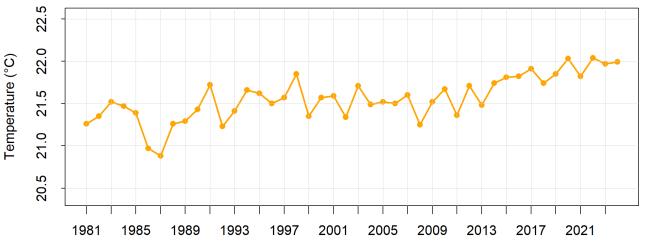


Figure 10: Monthly average minimum temperature of August from 1981 to 60 stations (average of monthly average minimum temperature at stations having long term data).

Historical record break

Some of the stations broke the previous record of August's extremes of temperature and precipitation (Table 1, 2 & 3).

Table 1: List of stations breaking the August's highest daily maximum temperature in August 2024.

S.N.	Station Name	District	Record break maximum temperature (°C)/Date	Previous highest maximum temperature (°C)/Date
1	Bhaktapur	Bhaktapur	35.5/2024-08-01	35.2/2023-08-26
2	Dumkauli	Nawalparasi East	39.5/2024-08-04	39.0/2020-08-04
3	Khadbari	Sankhuwasabha	34.5/2024-08-01	33.5/2020-08-13
4	Patan	Baitadi	33.0/2024-08-12	30.7/2022-08-10
5	Phidim	Panchthar	35.0/2024-08-30	34.5/2006-08-17

Table 2: List of stations breaking the August's lowest daily minimum temperature in August 2024.

S.N.	Station Name	District	Record break minimum temperature (°C)/Date	Previous lowest minimum temperature (°C)/Date
1	Phattepur	Saptari	15.5/2024-08-08	20.0/1999-08-06

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

S.N.	Station Name	District	Record break daily precipitation (mm)/Date	Previous highest precipitation(mm)/Date
1	Hardinath	Dhanusha	216.5/2024-08-06	168.1/1976-08-19
2	Humde	Manang	18.6/2024-08-03	18.2/2019-08-22
3	Khajura	Banke	186.2/2024-08-01	180.5/2012-08-03



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Annex 1: Monthly precipitation and temperature data of August 2024

				Precipitation													
						No. of Rainy Days				te		Maxin	num To	7)			
Station	Latitude	Longitude	Elevation	Total (mm)	% of Normal	≥1.0mm	>10.0mm	>25.0mm	>50.0mm	24hr Highest precipitaiton (mm)/Date	Average (°C)	υ	Highest temperature / Date	Average (°C)	Departure form normal (°C)	Lowest temperature / Date	No. of days with maximum temp. > 30°C
Baglung	28.2636	83.6003	964	463.3	103.2	21	14	6	2	78.6/6	32.5	1.4	35/24	21.8	0.0	20.4/20	29
Bahrabise	27.7887	85.9000	884	689.3	92.1	30	23	8	2	118.3/7	32.2	-	34.7/5	21.4	-	20/28	31
Baitadi (Gothalapani)	29.5574		1352	354.8	136.8	19	10	5	2		32.3	_	34.5/1	19.6	-	14.4/12	28
Bajura (Martadi)		81.4804	1598	655.2	123.8	25	17	12	3		27.8	-	30.7/31	19.9	_	18.5/7	3
Bandipur	27.9418		991	575.9	180.1	23	14	7	4	111.2/20		_	30.5/2	17.5	_	15.5/11	9
Bhairahawa Airport		83.4204	108	342.1	85.6	16	7	3	1	148.7/18		0.5	36.7/31	26.8	0.7	24/18	29
Bhaktapur	27.6767	85.4240	1315	349.3	109.2	22	14	3	1	55.8/14	30.8	-	35.5/1	20.8	-	18.5/30	23
Bijuwar Tar	28.1035		835	298.6	103.0	19	6	6	1		32.8	-	35.6/31	23.2	_	22/28	29
Biratnagar Airport	26.4840	87.2670	72	296.0	83.8	13	8	5	2	80.2/6	33.5	0.5		26.5	0.5	23.7/18	30
Birganj	27.0232		67	294.4	96.4	15	8	5	1	73/23	35.6	-	39.2/5	27.4	-	25/6	31
Chainpur (East)	27.2921	87.3170	1277	369.1	131.8	25	13	6	1		29.7	1.8	32/17	21.1	2.4	20/1	14
Chainpur (Bajhang)	29.5459	81.2011	1405	378.0	-	23	12	3	1	87.8/10	29.0	-	32.4/30	20.2	-	17.8/27	10
Changu Narayan		85.4268	1502	476.7	111.1	23	16	7	2	75.8/6	30.0	_	32.2/30	19.6	_	18/16	19
Chapakot	27.7101	83.8459	617	389.8	101.5	14	11	5	3	101.5/20		2.1	37.2/31	23.8	0.3	21.2/22	29
Charikot	27.6902		2132	697.5	124.2	27	19	11	6		23.8	-	26.5/15	16.3	-	14.8/20	0
Chatara	26.8204		105	400.6	99.0	20	11	8	1	51/12	34.9	-	36.6/16		-	24.4/18	31
Chaurjhari Tar		82.2103	863	459.3	146.7	21	11	6	3		31.8	0.1	35/1	23.1		24.4/10	29
	27.7538	85.7321	1552			-	-	-	-	128/10	29.0		33/1	17.0	-		
Chiannai (Kamali)		81.2854		707.9	105.3				4	89/6		-		25.5	- 0.4	24.2/16	30
Chisapani (Karnali) Dadeldhura	28.6472 29.3014		201 1879	707.8	94.5	27	18	12 5	0	37.5/29	34.0 25.6	1.2	36.6/16 28.4/31	18.0	0.4	24.2/16 16.4/7	0
Dailekh		81.7085	1394	458.1	94.3	23	14	5	3		28.2	-0.7	33/31	17.8	0.7	16.2/27	1
Daniekii		87.6988	119	479.0	103.6	16	11	8	4	75.9/6	34.1	-0.7		23.9	-	22/18	31
Daman		85.0920	2265	374.3	109.2	24	13	6	0		23.0	-	26.6/30	15.2	-	13.6/30	0
Damauli	27.9737	84.2651	347	414.1	126.9	17	10	4	4	93/20	34.4	-			-	23.5/21	29
Darchula New	29.8429	80.5388	887	654.6	120.9	25	16	8	6	85/25	32.3	_	35.2/31	22.8	-	21/27	31
	28.8127	80.5600	184	324.6	60.8	18	8	5	1	75.4/21	33.8	0.9	36.6/31	26.4	0.8	24.9/30	31
Dhangadhi (Attariya) Dhankuta	26.9832	87.3460	1192	242.3	150.9	16	8	5	0	36.2/21	30.2	2.2	32/4	20.4	0.8	19/21	22
Dharan Bazar	26.7922	87.2978	310	512.3	111.1	21	13	8	3	104.1/6		-		25.2	-	23.5/29	31
Dhulikhel	27.6161	85.5655	1543	380.3	106.2	22	12	4	2	75/6	28.1	2.4	30.5/30	18.6	-0.1	16/16	6
Dhunche		85.3077	2005	460.2	85.5	29	14	8	0	39.4/6	23.7	-0.3	27.4/15	17.1	0.9	15.6/26	0
Dhunibesi	27.7229	85.1643	991	382.7	92.7	24	14	6	0	45.5/6	31.4	1.1	34/31	22.1	0.9	20.4/30	25
Diktel		86.7919	1612	481.3	161.6	25	13	9	2	74/21	25.2	-	28/17	19.0	-	17.5/20	0
n		80.9369		136.4	60.7	13		0	0	20.5/19			36.4/1			23.5/7	31
Dıpayal (Dotı) Dumkauli		84.2285	183	311.7	55.4	16	8	6	1	80/20	34.0			25.7	0.9	20/6	28
Dunai		82.8960		118.1	116.8	20	5	0	0		28.9		32.5/17		-	11.5/31	9
Gaida (Kankai)		87.8607	107	376.7	69.8	19	12	6	2		33.7		36.5/17		1.7	25/18	30
				192.1	69.1		5	2	1					25.3			31
Gaur Ghorai (Dang)		85.3130 82.4842	77 663	447.8	104.7	13 23	15	6	2	57.3/1	35.2 30.7	0.2	38/1 33.7/30			22.3/6 22.5/18	19
Godavari		85.3788		554.7		25	18	8	3	66/7				17.4		14.5/30	
Gorkha (Birenchowk)		84.5894		431.3	133.7 122.9	23	12	5	3	69.5/20	26.6		34.4/16		0.9	22/18	29
							1								0.9		
Gulariya		81.3452		400.0	117.4	16	8	5	2		34.0			25.3	-	22.5/22	31
Hardinath		85.9833	93	478.4	-	17	6	5	3	216.5/6		- 0.2	36/30	26.5	- 0.7	24.5/20	31
Hetauda N.F.I.		85.0252	452	72.0	-	- 12	-			- 10.6/2	32.7		- 22/21	24.4		7.0/20	-
Humde			3401	73.2	77.0	13	2	0	0	18.6/3	19.2	-	23/31	10.2	- 1.5	7.9/29	0
Ilam Tea Estate				243.4	77.2	23	9	3	0		26.1	0.0		20.7	1.5	18.4/21	0
Jalesor		85.8073	68	212.1	85.1	13	7	2	1		34.8		37.5/17		1.4	24.5/6	31
Janakpur Airport		85.9172	76	195.8	61.4	12	5	2	1	68.4/6	35.3	2.3		27.4	0.7	25.4/20	31
Jiri		86.2321		581.5	90.1	28	19	12	1	75.2/29			27.9/15			13.2/30	0
Jomsom	28.7840	83.7298	2/41	50.5	115.1	14	0	0	0	9.6/3	23.7	1.1	27/15	14.3	0.5	12/31	0



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						Prec	ipitati	ion			Temperature							
						No. of Rainy Days				te					Ŋ			
Station	Latitude	Longitude	Elevation	Total (mm)	% of Normal	≥1.0mm	≥10.0mm	>25.0mm	>50.0mm	24hr Highest precipitaiton (mm)/Date		Departure form normal (°C)	Highest temperature / Date	Average (°C)	Departure form normal (°C)	Lowest temperature / Date	No. of days with maximum temp. > 30°C	
Jumla	29.2747	82.1796	2363	193.3	106.1	23	7	1	0	30.8/7	26.0	1.2	29.1/16	15 9	0.4	12.4/31	0	
Jumla Airport	29.2740	82.1942		212.8	-	23	9	2	0	33.8/7	25.6	-	28.2/16		-	11.2/31	0	
Kakani		85.2674		726.4	97.7	27	18	12	3	107.8/6		0.0	28/16	16.6	0.3	15/18	0	
Kanyam Tea Estate	26.8681	88.0783	1570	483.4	85.5	24	13	7	3	73.5/7	24.2	0.9		18.7	1.7	17/21	0	
Karmaiya			139	366.5	83.0	18	10	6	1	88.2/6	34.6	0.9	36.5/29	_	0.0	21/10	31	
Kathmandu Airport			1337	384.6	112.2	24	14	9	1	51.7/6	30.0	1.0		20.4	0.2	18.9/30	18	
Khadbari			1064	368.1	-	27	12	5	2	61/15	30.6	-		21.8	-	19.2/20	22	
Khairini Tar	28.0270	84.0866	515	520.7	121.2	22	10	6	4	120.5/21	33.3	0.3	35.9/15	24.3	0.2	22.5/22	29	
Khajura (Nepalganj)	28.1137	81.5903	129	563.8	168.9	18	11	6	5	186.2/1	34.1	0.7	36.6/31	26.5	0.8	24.5/18	31	
Khanchikot	27.9221	83.1298	1801	289.5	74.9	24	8	4	0	46.3/18	25.5	1.6	30/15	17.5	0.0	16.5/27	1	
Khokana		85.2967	1309	408.4	150.1	23	14	5	1	54.5/7	29.1	-		20.2	-	17.5/30	9	
Khudi Bazar	28.2822	84.3564	838	623.7	76.2	24	19	11	3	76.9/21	30.3	-0.5	32.6/15		-0.6	19.2/25	23	
Khumaltar	27.6517	85.3257	1334	461.2	181.9	23	15	5	2	85.3/7	29.7	1.8	32.2/30	20.9	0.6	18.6/30	16	
Kushma		83.6769	900	629.8	102.2	19	14	8	5	102/6	30.9	-0.4	34.4/31		0.8	21.4/31	22	
Lahan	26.7327	86.4776	110	269.2	107.4	13	5	4	1	108.5/14		-	37.5/30		-	25/20	31	
Lete	28.6327		2490	260.2	102.3	25	11	3	0	36.3/29		-	25/31	14.3	-	13/12	0	
Libang Gaun			1314	428.7	115.6	19	14	6	2	75.2/18		-	33/31	20.9	-	19.5/27	20	
Lumbini	27.4703		95	365.8	106.5	15	8	5	2	140/18	33.6	-	35.5/1	26.5	-	24/20	28	
Lumle	28.2965	83.8179	1738	897.8	63.2	27	20	15	4	133.4/16		0.4	26.6/30	18.1	0.5	16.4/27	0	
Mahendra Nagar	28.9548		197	505.1	88.0	22	12	4	3	133/7	33.9	0.8	37/31	26.1	0.7	24/7	30	
Mangalsen	29.1361	81.2501	1310	332.5	106.1	22	8	5	1	63.7/27	28.4	-	33/30	20.8	-	18.5/7	6	
Manma				361.8	- 106.2	20	11	4	1	79.8/29	26.0	-	28.5/31		-	16.7/7	0	
Manthali	27.3947 26.9280	86.0612 85.4451	497 90	350.6	186.3	21 15	14 10	5 6	0	48.5/2 77.7/11	34.6 33.7	- 0.2		23.4	0.5	21.5/30	30	
Manusmara Musikot (Rukumkot)	28.6190	82.4625	1412	359.0 552.7	113.3 96.4	24	17	9	3	59.5/22	29.0	1.0	31.3/1	26.6 20.5	1.0	24.5/20 19.4/27	11	
Nagarkot (Rukullikot)				479.7	102.0	26	18	5	1	65.8/6	22.8	0.5	26.3/15		0.4	14.5/16	0	
Nagma		81.9106		122.8	82.3	19	4	0	0	22.7/10		-	28.5/16		-	11.5/25	0	
Nepalguni Airport	28.1006		165	626.9	157.8	22	11	7	4	126/7	33.5	-0.1	36.2/31		0.8	-	31	
Nepalgunj (Reg.Off.)	28.0520	81.6228	141	559.0	160.3	20	9	7	4	150/1	34.5	1.5	38/31	26.7	0.3	24/18	31	
Nuwakot		85.1646	966	569.2	119.7	27	16	7	3	92.8/18		0.0	33.1/24		0.3	20.3/26	26	
Okhaldhunga	27.3081	86.5042	1731	674.9	162.4	23	17	12	5	82.4/6	25.7	0.6	28.5/30		0.6	16.2/15	0	
Oli Gaun (Patkani)	29.1559	81.2831	989	365.6	-	23	12	4	2	64.6/27	31.8	-	34.1/20	19.6	-	15.8/3	29	
Pakhribas	27.0463	87.2925	1720	415.7	129.6	23	13	7	0	46.5/14	24.3	0.7	26.5/25	17.6	-0.1	16/20	0	
Panchkhal	27.6451	85.6209	857	399.0	149.4	23	14	6	2	56.5/6	32.8	0.8	34.7/1	22.7	0.2	21/16	29	
Parasi	27.5193	83.6622	112	297.9	73.9	12	7	6	1	89.5/6	33.4	-	36/30	26.4	-	24.5/6	29	
Parwanipur		84.9327	87	383.5	101.7	13	10	4	2	126.7/23		0.4	36/17	26.1	-0.1	23.5/23	31	
Patan new		80.5506		275.9	-	18	10	3	1	51.1/19		-	33/12	20.8	-	10.8/1	13	
Phattepur		86.9348		459.8	122.2	15	11	6	4	86/6	34.2	-0.1	36/12	25.5	0.0	15.5/8	31	
Phidim (Panchther)		87.7656		279.6	98.8	24	9	4	0	48.4/7	31.5	2.0		21.7	0.9	20.2/21	25	
Pokhara Airport		83.9795		566.9	67.5	22	18	7	1	127.1/21		0.5	33.5/31		0.6	21.2/21	26	
Pusma Camp		81.2327	953	467.0	118.2	19	11	4	4		28.8	-	31.5/14		-0.5	19.2/7	10	
Rajbiraj		86.7425	68	543.9	185.7	18	12	5	3	207.3/6		0.1	36.2/17			23.9/1	30	
Rampur		84.3508		406.8	89.9	16	10	5	3	75.4/13		0.8	37/5	25.3	-0.1	24/20	29	
Rara		82.0818		279.9	121.2	22	9	4	0	43.5/19		-	25.5/2	13.1	-	10/31	0	
Salleri		86.5862		554.0	121.2	27	18	12	2	50.5/20		1.0		14.8	- 0.5	12.5/25	0	
Salyan Bazar		82.1423		256.0	108.8	17	7	3	1	56.8/30		1.0	31.2/31			18.2/18	3	
Semari Simora Airport		83.7861	110	245.5	46.1	16	8	3	1 2	90.6/6		-0.9	37/29	26.6	1.6	24/18	30	
Simara Airport		84.9800		580.6	137.6	17 23	8	6	0	149/21		0.9	36.4/17		0.0	23.5/21	30	
Simikot Sindhuli Madhi		81.8161 85.9050		196.3 472.0	95.1	25	6 14	5	3	33.6/7 70.4/18	21.6	1.8	24/15 35.5/31	13.1	-0.3	9.7/27 20.4/30	30	
Siraha		86.2117	63	164.9	56.6	15	4	2	2	51.8/6		1.0	37.8/31		-0.3	24/3	31	
Surkhet Airport		81.6352		432.6	106.2	24	11	5	2	92.4/18		1.5		23.7	0.3	22/16	J1 -	
parkiet Airport	20.3019	01.0332	003	¬ J∠.0	100.2	∠+	11	ر ا		12.4/10	J∠.U	1.J		١.دے	0.5	22/10		



Babarmahal, Kathmandu

				Precipitation								Temperature							
						No. of Rainy Days					Maximum				C				
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		
Syangja	28.0988	83.8722	871	512.9	87.9	21	13	7	2	112.8/21	32.1	1.0	35.7/26	23.0	1.0	21.5/18	27		
Tamghas	28.0636	83.2435	1547	489.5	115.5	17	13	7	3	90.2/18	26.5	0.2	29.5/2	18.9	0.3	17.5/18	0		
Tansen	27.8637	83.5387	1183	359.5	102.7	21	9	4	3	76/21	29.5	-	33.5/30	21.1	1.54	19.5/18	17		
Taplejung	27.3586	87.67	1744	356.6	85.93	26	11	4	2	59/25	27	1.36	28.7/1	18.4	0.53	17/30	0		
Tarahara	26.6987	87.2786	120	304.4	82.52	18	7	4	1	83.6/6	34.2	1.78	37.5/17	26.2	0.77	24.5/18	31		
Taulihawa	27.5711	83.0672	106	484.9	128.8	17	7	5	4	144.2/18	32.7	-0.1	35.1/31	26.3	0.62	23.2/18	30		
Terhathum	27.123	87.5362	1525	213.6	118.7	18	8	2	0	39.1/21	27.5	0.57	30.5/17	18.9	0.82	17/15	1		
Thakmarpha	28.7409	83.6816	2655	55.3	89.48	12	1	0	0	10.2/13	22.4	0.46	25/31	11.6	-1.11	10/26	0		
Tikapur	28.5366	81.115	149	478.4	109.1	21	14	8	3	65.1/22	-	-	-	22.4	-2.88	20.5/18	-		
Udayapur Gadhi	26.913	86.5397	469	373.9	106.5	20	11	4	1	97.6/6	31.8	1.03	34.5/18	24.3	-0.01	22.5/30	28		

Note:

- "mm" = millimeter; "temp" = temperature; "-" = Data Not Available.
- This summary is prepared based on the precipitation and temperature received at 112 meteorological stations during August, 2024. Out of 112 stations, 98 stations have normal precipitation data, 68 stations have normal maximum and 70 stations have normal minimum temperature data. Normal precipitation/temperature is the average of the monthly precipitation/temperature for 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.