



Government of Nepal
Ministry of Energy, Water Resources and Irrigation
Department of Hydrology and Meteorology
Nagpokhari, Kathmandu, Nepal.

PRELIMINARY WEATHER SUMMARY OF NEPAL
October 2018

Note: This weather summary is based on daily data of 38 meteorological stations established by Department of Hydrology and Meteorology.

MAIN HIGHLIGHT

Almost all parts of the country recorded below normal temperature and below normal rainfall (Fig.2 and Fig.4). The minimum extreme of Dipayal surpassed its previous record for this month from 8.8 °C to 8.5 °C (Table 2). This year the monsoon withdrew from Nepal on 5th October delayed by 12 days from normal withdrawal date of 23rd September.

SYNOPTIC SEQUENCES

Many Western Disturbances as well as cyclonic circulations influenced the weather during this October. Apart from these disturbances, the Cyclonic storm, 'TITLI' formed over west central Bay of Bengal on 9th October and moving northwestwards it intensified into Severe Cyclonic Storm on 10th October. This system influenced weather over Nepal from 9th to 13th of October.

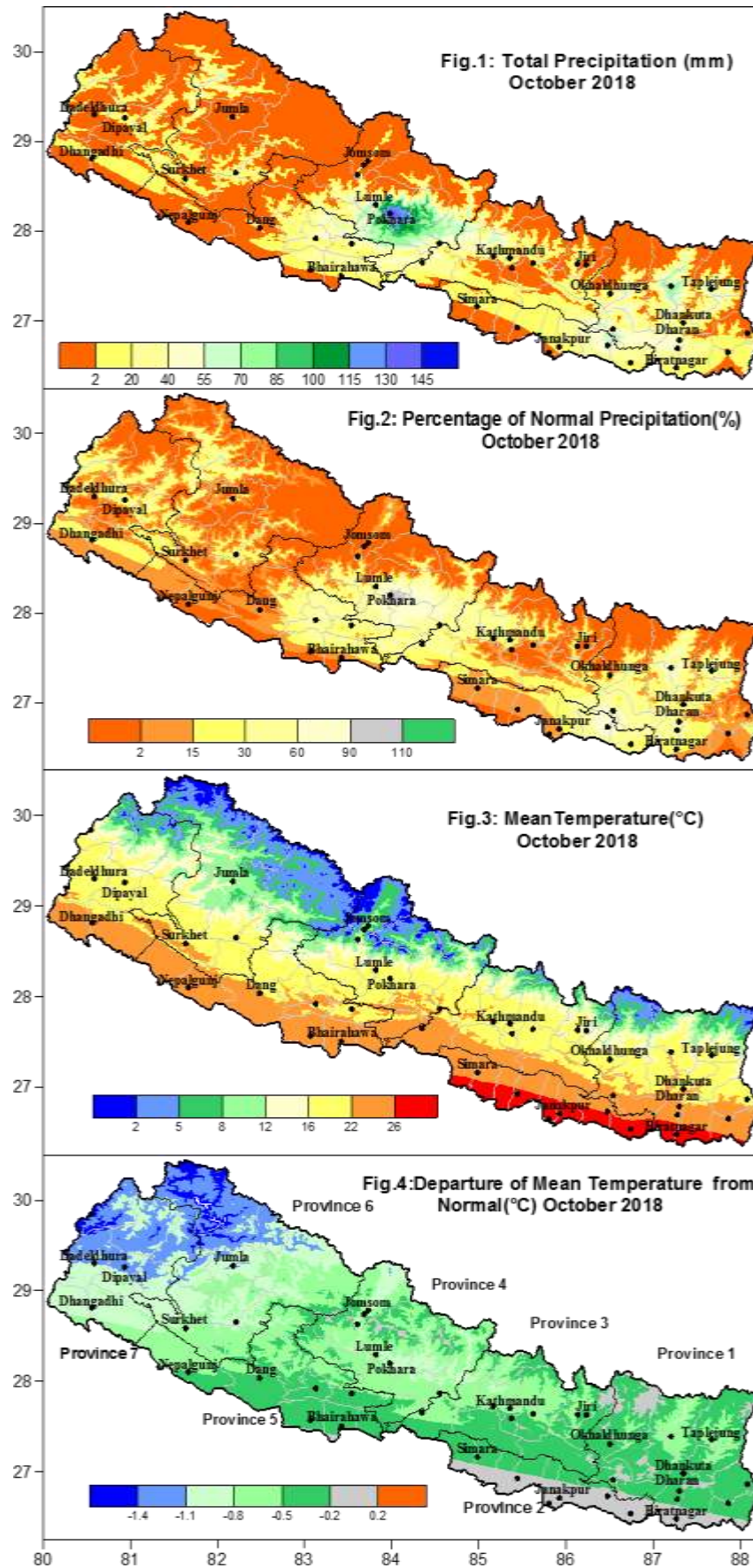
PRECIPITATION DISTRIBUTION

Below to well below (less than 30 percent) rainfall occurred over much of the country except for an isolated patch over province 4 at Pokhara Airport where the normal amount of rainfall was received. Among 38 stations, Pokhara Airport recorded the highest 24 hour rainfall of 34.8mm was recorded on 3rd October as well as the highest monthly total rainfall of 156.8mm (112.2% of normal rainfall) (Fig.2).

TEMPERATURE PATTERN

Almost all parts of the country recorded normal to below normal temperature (Figure 3). Below normal temperature less than -1.4°C was recorded over north western part of the country (Fig.4). Regarding mean temperature departure, highest negative anomaly of -2.1°C was recorded in Darchula whereas the highest positive anomaly of 0.2°C was recorded over Biratnagar and Taplejung. Among the 38 stations, the mean temperature varied from below 12.0°C in the northern parts to above 26.0°C in southern parts of province 1 and 2 (Table 1). Nepalgunj recorded the highest maximum temperature of 35.5°C on 4th October while Thakmarpha recorded the lowest minimum temperature of -3.5°C on 25th October (Table 1).

[The viewers of this site need to consider this difference that due to the interpolation of the data into (1kmx1km) grid to produce the figures listed below there is variability in the real data in the table and the color legends in the figure.]



Remarks: Normal Rainfall (Gray colour) = 100 ± 10 %
 Normal Temperature (Gray colour) = 0 ± 0.2 °C

Table: 1
PRELIMINARY MONTHLY WEATHER DATA
October 2018

Stations	PRECIPITATION							TEMPERATURE								
	Total (mm)	% of Normal	No. of Rainy Days				24hrs Extreme Rainfall & Date	Maximum (°C)			Minimum (°C)			Mean (°C)	No. of Days with maximum temperature >30°C	
			≥ 1.0 mm	≥ 10.0 mm	≥ 25.0 mm	≥ 50.0 mm		Average Max	Departure from the normal	Highest Max & Date	Average Min	Departure from the normal	Lowest Min & Date	Monthly Mean		Departure from the normal
DADELHURA	0.0	0.0	0	0	0	0	0	22.3	0.7	33/3	10.8	-0.9	7.9/24	16.6	-0.1	2
DARCHULA	31.7	48.0	1	1	1	0	31.7/2	25.9	-2.5	29.2/3	12.5	-1.7	9.4/24	19.2	-2.1	0
DHANGADHI	0.0	0.0	0	0	0	0	0	32.0	0.6	34.4/2	17.0	-1.8	12.2/29	24.5	-0.6	29
DIPAYAL	0.0	0.0	0	0	0	0	0	30.3	-1.0	33.5/1	13.6	-2.7	8.5/28	21.9	-1.9	24
JUMLA	0.0	0.0	0	0	0	0	0	21.7	-0.2	24.9/1	2.9	-1.3	-0.7/24	12.3	-0.8	0
SURKHET	0.0	0.0	0	0	0	0	0	29.8	1.4	31.9/1	13.8	-2.0	9.1/26	21.8	-0.3	13
NEPALGUNJ AIRPORT	0.0	0.0	0	0	0	0	0	33.4	2.1	35.5/4	17.6	-2.4	13.5/23	25.5	-0.2	31
CHAURJHARITAR	0.0	0.0	0	0	0	0	0	27.5	-1.1	31.5/1	13.0	-2.9	8.5/24	20.3	-2.0	3
GHORAI (DANG)	2.6	4.5	1	0	0	0	2.6/13	29.7	1.3	31.8/2	15.3	-0.8	11.5/27	22.5	0.2	11
JOMSOM	0.0	0.0	0	0	0	0	0	17.6	-0.5	21.5/30	5.4	-0.2	1.7/24	11.5	-0.3	0
THAKMARPHA	3.8	10.5	2	0	0	0	2.3/19	17.5	0.2	21.5/30	0.9	-4.2	-3.5/25	9.2	-2.0	0
TANSEN	0.0	0.0	0	0	0	0	0/1	27.2	0.6	29.6/1	14.1	-1.5	10.5/26	20.6	-0.4	0
BHAIRHAWA AIRPORT	3.3	4.3	1	0	0	0	3.3/4	33.0	0.8	34.5/31	19.6	-0.8	14.9/28	26.3	0.0	31
KHANCHIKOT	0.9	1.5	0	0	0	0	0.9/3	21.8	0.6	26/1	13.0	-0.4	10/24	17.4	0.1	0
TAULIHAWA	16.1	44.4	1	1	0	0	16.1/13	31.6	-0.5	33.2/31	19.3	-1.7	14/28	25.5	-1.1	31
POKHARA AIRPORT	156.8	112.2	10	6	3	0	34.8/3	27.7	0.2	31.1/1	16.2	-0.5	11.8/26	21.9	-0.2	2
LUMLE	43.8	21.3	5	1	0	0	17.5/12	20.4	-0.8	23.5/1	11.3	-1.6	7.5/26	15.9	-1.2	0
RAMPUR	24.6	32.4	2	1	0	0	17.7/8	31.3	-0.6	33.3/1	17.8	-1.9	11.8/28	24.5	-1.3	31
SIMARA AIRPORT	0.0	0.0	0	0	0	0	0	32.3	0.8	34/31	18.8	-1.2	14/24	25.5	-0.2	31
GODAWARI	0.0	0.0	0	0	0	0	0	23.6	1.0	28/1	M	M	M	M	M	0
KATHMANDU AIRPORT	14.9	29.1	3	0	0	0	9.1/8	26.3	-0.5	30.2/1	12.4	-1.0	8/27	19.4	-0.8	1
PANCHKHAL	3.8	7.4	2	0	0	0	1.7/7	30.0	0.7	33.2/1	14.0	-1.9	8/27	22.0	-0.6	18
DHUNIBESI	0.0	0.0	0	0	0	0	0	28.2	1.1	30.5/1	15.8	-1.4	13/25	22.0	-0.2	1
JIRI	9.3	13.4	4	0	0	0	3.8/13	21.4	-0.1	24.6/1	8.5	-0.7	3.5/26	14.9	-0.4	0
JANAKPUR AIRPORT	6.2	9.7	1	0	0	0	6.2/4	32.4	0.7	35/1	20.5	-1.4	15.8/24	26.5	-0.4	28
JALESORE	0.0	0.0	0	0	0	0	0	31.9	0.1	35/1	22.7	-0.3	17/26	27.3	-0.1	30
KABRE	4.3	6.7	1	0	0	0	4.3/12	23.6	0.4	26/1	12.5	-0.3	9/26	18.1	0.0	0
OKHALDHUNGA	1.8	2.9	1	0	0	0	1.7/8	23.7	0.9	26.1/1	12.7	-2.9	10.2/25	18.2	-1.0	0
UDAYPURGADHI	59.0	70.0	8	1	1	0	34/10	29.9	0.0	31.5/2	18.4	-2.5	14.3/26	24.2	-1.3	15
LAHAN	58.6	90.1	4	2	1	0	27.5/29	31.8	0.7	33.5/1	20.2	-1.2	16/26	26.0	-0.3	30
RAJBIRAJ	13.1	18.0	2	1	0	0	10.9/7	31.2	-1.1	33.2/1	22.0	0.7	18/26	26.6	-0.2	25
DHANKUTA	7.8	17.7	2	0	0	0	3.9/12	25.8	0.3	29.5/2	14.9	-0.7	12/26	20.4	-0.2	0
DHARAN	49.4	34.1	5	2	0	0	18/7	30.5	-0.3	32/2	21.0	0.7	18/25	25.7	0.2	24
BIRATNAGAR AIRPORT	16.5	18.0	3	0	0	0	8.5/7	31.8	0.2	34.9/2	20.5	-0.6	16.5/25	26.1	-0.2	29
TARAHARA	43.9	47.3	3	2	0	0	23.2/7	32.1	0.7	34.5/27	19.2	-0.9	14.8/26	25.6	-0.1	30
KHADBARI	59.2	60.1	7	2	1	0	32.8/2	M	M	M	16.6	-0.7	13.8/28	M	M	M
TAPLEJUNG	33.1	40.7	3	1	1	0	28.4/2	22.7	0.7	26.7/2	12.4	-0.3	8.5/26	17.5	0.2	0
KANKAI	1.2	0.8	1	0	0	0	1.2/13	32.3	0.2	34/1	19.0	-0.5	14/25	25.7	-0.2	30

Max 156.8 112.2 10.0 6.0 3.0 0.0 33.4 2.1 22.7 0.7 27.3 0.2
Min 0.0 0.0 0.0 0.0 0.0 0.0 17.5 -2.5 0.9 -4.2 9.2 -2.1

Remarks: M = Data not available

Rainfall recorded on a day is the total 24 hour rainfall from the previous day 8:45 am till 8:45 am of that day.