



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

PRELIMINARY WEATHER SUMMARY OF NEPAL
December 2018

Note: This weather summary is based on daily data of 37 meteorological stations established by Department of Hydrology and Meteorology.

MAIN HIGHLIGHT

Almost all parts of the country recorded below normal rainfall and normal to below normal temperature (Fig.2 and Fig.4).

SYNOPTIC SEQUENCES

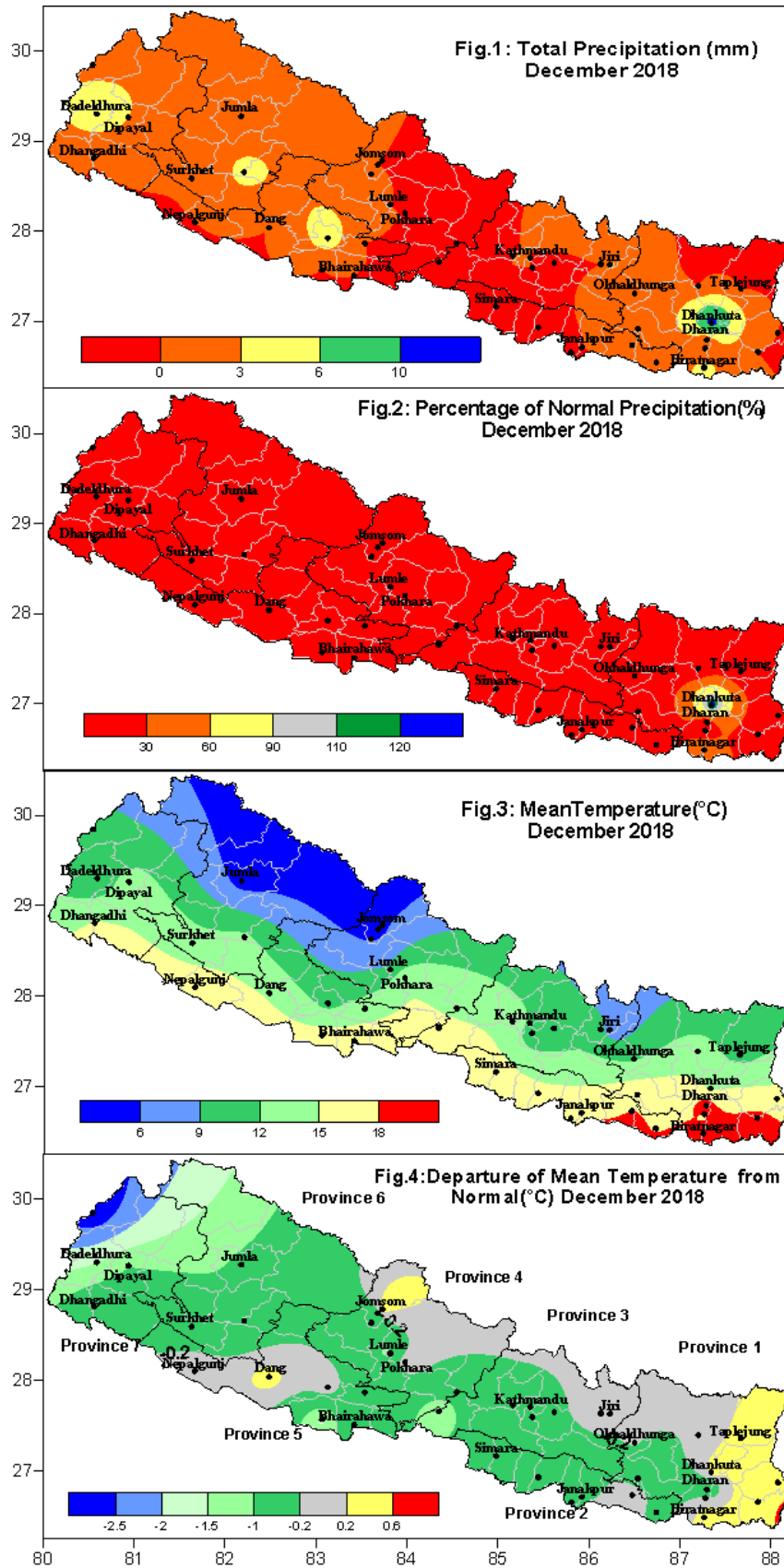
A western disturbance as a trough in mid tropospheric westerlies contributed to rainfall over western parts of Nepal during 13th and 14th of December. A cyclonic storm “PHETHAI” formed over southwest Bay of Bengal on 16th December spurred rainfall over eastern Nepal between 17th -19th of this month. A feeble western disturbance as a trough influenced rainfall during 29th of this month.

PRECIPITATION DISTRIBUTION

Below to well below normal rainfall (less than 30.0 percent) occurred over much of the country except for a patch over southern part of Province 1(Fig. 2). Among 37 stations, the highest 24 hour rainfall of 12.0 mm was recorded on 29th December at Dhankuta contributing to the highest monthly total rainfall of 12.0 mm (136.4% of normal rainfall) (Fig. 2, Table 1).

TEMPERATURE PATTERN

Except for eastern part of province 1, southern part of province 5 and an isolated patch over northern Mustang (Province 4), rest of the country recorded normal to below normal temperature (Fig.3). Regarding mean temperature departure, highest negative anomaly of -2.9°C was recorded in Darchula whereas the highest positive anomaly of 0.5°C was recorded over Kankai. Among the 37 stations, the mean temperature varied from below 6.0°C in the northern parts to above 18.0°C in southern parts (Fig. 3). Tarahara recorded the highest maximum temperature of 31.2°C on 16th December while Jumla recorded the lowest minimum temperature of -8.0°C on 26th December (Table 1).



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

Table: 1
PRELIMINARY MONTHLY WEATHER DATA
December 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 < 0°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	5.0	21.7	1	0	0	0	5/14	14.3	-1.4	18.5/31	3.7	-1.6	-1.3/27	9.0	-1.5	2
DARCHULA	2.0	7.5	1	0	0	0	2/14	14.8	-5.4	18.6/2	5.0	-0.5	1.6/29	9.9	-2.9	0
DHANGADHI	0.1	0.6	0	0	0	0	0.1/13	23.6	0.2	25.4/14	7.0	-1.3	2.5/28	15.3	-0.5	0
DIPAYAL	3.0	14.8	1	0	0	0	3/14	22.7	-0.7	25.2/1	4.8	-1.3	1/28	13.7	-1.0	0
JUMLA	0.6	4.4	0	0	0	0	0.6/14	14.7	-1.4	19.4/19	-5	-0.4	-8/26	4.9	-0.9	31
SURKHET	0.3	1.6	0	0	0	0	0.3/14	21.5	0.3	23.6/6	4.9	-1.4	1.5/29	13.2	-0.6	0
NEPALGUNJ AIRPORT	0.0	0.0	0	0	0	0	0.0	25.5	2.1	28.8/16	7.6	-2.0	1.5/28	16.6	0.1	0
CHAURJHARITAR	4.0	25.5	1	0	0	0	4/14	20.6	-0.4	25/19	4.9	-1.6	1/29	12.7	-1.0	0
GHORAI (DANG)	0.0	0.0	0	0	0	0	0.0	22.4	0.9	24.3/17	6.8	-0.1	3/29	14.6	0.4	0
JOMSOM	0.0	0.0	0	0	0	0	0.0	12.1	0.0	19/19	-0.9	0.8	-4.5/28	5.6	0.4	23
THAKMARPHA	0.0	0.0	0	0	0	0	0.0	11.7	-0.6	20/19	-1.9	-0.7	-5.5/8	4.9	-0.6	27
TANSEN	0.0	0.0	0	0	0	0	0.0	19.9	-0.3	22/1	7.1	-1.4	4/28	13.5	-0.8	0
BHAIRHAWA AIRPORT	0.0	0.0	0	0	0	0	0.0	24.7	0.6	26.9/14	8.8	-1.3	4.2/30	16.8	-0.4	0
KHANCHIKOT	4.9	19.2	1	0	0	0	4.9/14	16.0	1.0	17.9/4	6.1	-0.7	2.8/28	11.1	0.2	0
TALUHAWA	0.0	0.0	0	0	0	0	0.0	24.4	-0.2	26.5/14	8.0	-3.0	3.5/29	16.2	-1.6	0
POKHARA AIRPORT	0.0	0.0	0	0	0	0	0.0	20.8	0.0	22.5/13	8.3	0.3	4/30	14.5	0.2	0
LUMLE	0.0	0.0	0	0	0	0	0.0	14.1	-0.8	16/15	4.8	-1.4	2/26	9.4	-1.1	0
RAMPUR	0.0	0.0	0	0	0	0	0.0	23.5	-0.9	26.3/16	7.5	-1.8	3.8/30	15.5	-1.3	0
SIMARA AIRPORT	0.0	0.0	0	0	0	0	0.0	25.3	0.7	28.5/12	7.9	-1.5	2.5/28	16.6	-0.4	0
GODAWARI	0.0	0.0	0	0	0	0	0.0	16.8	0.5	19.8/24	3.3	-1.0	0.3/29	10.1	-0.2	0
KATHMANDU AIRPORT	0.0	0.0	0	0	0	0	0.0	18.7	-1.5	20.5/2	4.4	0.7	0.5/31	11.5	-0.4	0
DHUNIBESI	0.0	0.0	0	0	0	0	0.0	19.7	0.4	22/1	8.3	-0.9	5.5/28	14.0	-0.3	0
JIRI	3.4	27.3	1	0	0	0	2.8/29	15.0	-0.4	18/19	-0.4	0.0	-4.5/29	7.3	-0.2	19
JANAKPUR AIRPORT	0.0	0.0	0	0	0	0	0.0	25.6	0.5	30.2/16	9.1	-1.8	4.4/30	17.4	-0.6	0
JALESORE	0.0	0.0	0	0	0	0	0.0	24.7	0.0	28/16	11.1	-0.4	5/31	17.9	-0.2	0
KABRE	0.0	0.0	0	0	0	0	0.0	16.7	-0.3	19/3	5.0	0.1	1/29	10.9	-0.1	0
OKHALDHUNGA	0.2	1.6	0	0	0	0	0.2/29	17.0	0.4	19.8/2	6.3	-0.8	3/28	11.7	-0.2	0
UDAYPURGADHI	1.0	7.5	1	0	0	0	1/29	24.2	0.6	27.9/15	10.2	-1.6	6.1/29	17.2	-0.5	0
LAHAN	0.0	0.0	0	0	0	0	0.0	25.6	1.5	31/16	10.5	-1.1	5/28	18.1	0.2	0
RAJBIRAJ	1.0	11.6	1	0	0	0	1/18	24.6	-0.8	27.6/16	11.0	0.0	6.5/28	17.8	-0.4	0
DHANKUTA	12.0	136.4	1	1	0	0	12/29	20.5	0.7	23.3/16	8.4	0.0	4/29	14.5	0.4	0
DHARAN	0.3	3.2	0	0	0	0	0.3/18	25.5	0.3	29.5/16	14.0	-2.4	10/19	19.7	-1.1	0
BIRATNAGAR AIRPORT	4.0	60.6	1	0	0	0	4/18	26.2	0.8	30.7/16	10.5	0.0	5.3/31	18.3	0.4	0
TARAHARA	0.8	9.8	0	0	0	0	0.8/18	26.6	1.3	31.2/16	9.0	-1.2	4.5/31	17.8	0.0	0
KHADBARI	0.0	0.0	0	0	0	0	0.0	17.9	0.1	20/3	10.0	-0.3	5.6/29	13.9	-0.1	0
TAPLEJUNG	0.0	0.0	0	0	0	0	0.0	16.5	0.9	18/3	5.2	-0.3	1/29	10.9	0.3	0
KANKAI	0.0	0.0	0	0	0	0	0.0	26.9	0.5	31/16	10.6	0.6	6/31	18.8	0.5	0
Max	12.0	136.4	1.0	1.0	0.0	0.0	12.0/29	26.9	2.1	31.2/16	14.0	0.8	10.0/19	19.7	0.5	31.0
Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	-5.4	16.0/15	-5.0	-3.0	-8/26	4.9	-2.9	0.0

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.