



Government of Nepal
Ministry of Population and Environment
Department of Hydrology and Meteorology
Nagpokhari, Kathmandu, Nepal

PRELIMINARY WEATHER SUMMARY OF NEPAL
May 2017

MAIN HIGHLIGHT

Most parts of the country recorded normal to above normal rainfall and normal to below normal temperature (Fig.2, Fig.4, and Table 2).

SYNOPTIC SEQUENCES

Western disturbances, upper cyclonic circulations and troughs contributed to rainfall during each week of May 2017. A Cyclonic Storm MORA formed over Bay of Bengal on 28th May. It moved northeastwards and crossed Bangladesh coast on 30th May which helped in contributing small amount of rainfall during last three days of the month.

PRECIPITATION DISTRIBUTION

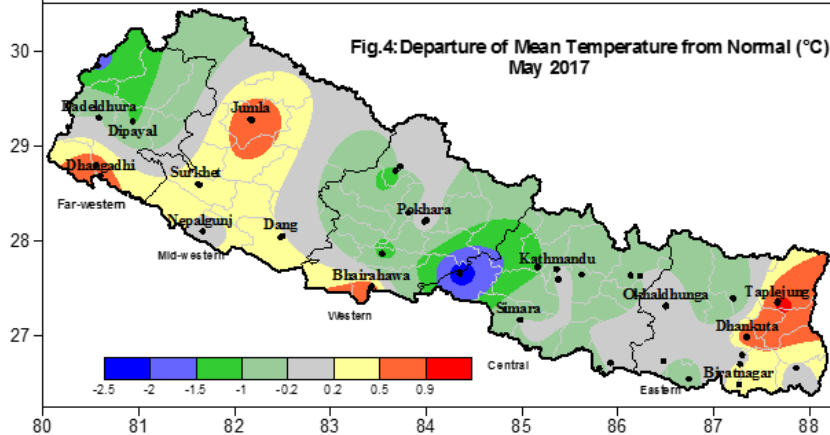
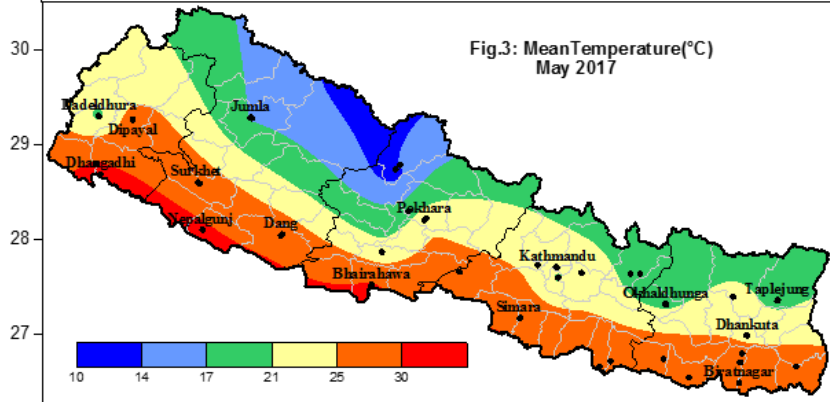
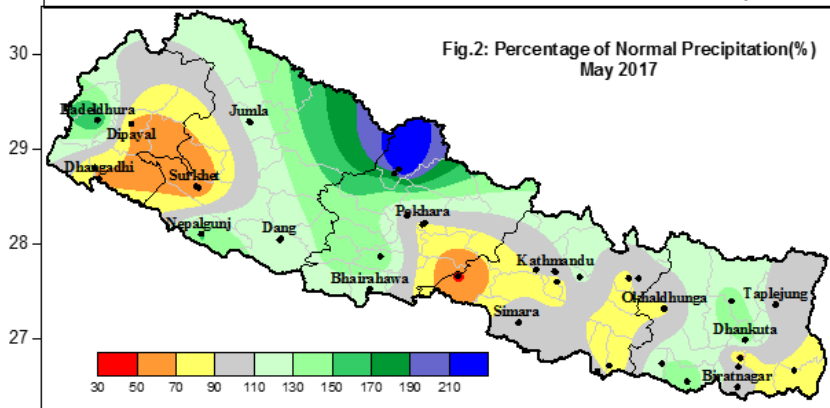
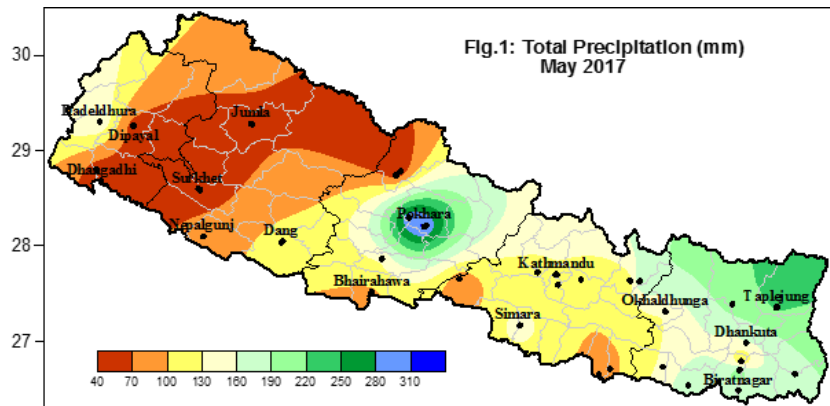
Based on thirty four selected stations, most parts of the country recorded normal to above normal rainfall. However, adjoining areas of Far Western Region (FWR) and Mid-Western Region (MWR) as well as adjoining areas of Western Region (WR) and Central Region (CR) recorded below normal rainfall (Figure 2) with south eastern corners of CR and Eastern Region (ER). The highest total rainfall of 314.2mm (87.5%) was recorded at Pokhara Airport and highest percentage of rainfall 243.4% (48.0mm) was recorded at Jomsom. The highest 24 hour rainfall of 77.5mm on 21st May was recorded at Lumle (Figure 1, Table 2). Highest amount of the rainfall was received during 4th week of the month (Table 1).

Table 1: Temporal distribution of average rainfall in May, 2017

Week	Total rainfall (mm) (arithmetic average from station rainfall)	Percentage (%) of monthly total	Daily rainfall Intensity (mm)
1 st	23.9	17.8	3.4
2 nd	30.7	22.9	4.4
3 rd	30.2	22.6	4.3
4 th	34.6	25.8	4.9
Remaining 3 days	14.5	10.8	4.8
Total	133.9	100.0	

TEMPERATURE PATTERN

Except for eastern part of ER, and southern areas of FWR, MWR, and WR along with central parts of MWR around station Jumla, rest of the country recorded normal to below normal temperature (Figure 4). The mean temperature varied between less than 14.0°C in the northern parts of MWR and WR to above 30.0°C in south western parts of Tarai Region (Figure 3). As compared to other stations, Nepalgunj Airport recorded the highest maximum temperature of 42.0°C on 25th May while the lowest minimum temperature of 0.5°C was recorded in Thakmarpha on 1st May (Table 2).



Remarks: Normal Rainfall (Gray colour) = $100 \pm 10\%$
Normal Temperature (Gray colour) = $0 \pm 0.2\text{ }^{\circ}\text{C}$

Table: 2
PRELIMINARY MONTHLY WEATHER DATA
May 2017

Stations	PRECIPITATION							TEMPERATURE								
	Total (mm)	% of Normal	No. of Rainy Days				24hrs Extreme Rainfall & Date	Maximum (°C)			Minimum (°C)			Mean (°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	No. of Days with maximum temperature ≥ 30°C
DADEL DHURA	160.7	174.3	16	7	1	0	27/31	25.8	-0.3	29.3/1	14.5	0.0	10.2/1	20.1	-0.2	0
DARCHULA	148.5	114.3	15	7	1	0	37.9/21	31.8	-2.1	36.4/7	17.9	-1.1	14.5/2	24.8	-1.6	24
DHANGADHI	54.1	68.6	6	2	0	0	18/9	37.6	0.4	41.2/25	23.6	1.1	19.2/2	30.6	0.7	31
DIPAYAL	55.5	64.1	10	2	0	0	13/29	34.9	-1.2	39/14	18.6	-1.0	12.2/31	26.8	-1.1	29
JUMLA	67.4	117.4	13	1	0	0	14/28	24.4	0.3	27.5/25	9.1	1.4	4/2	16.8	0.8	0
SURKHET	46.0	50.4	10	1	0	0	10/17	34.8	0.9	38.7/25	20.3	-0.1	15.9/1	27.6	0.4	29
NEPALGUNJ AIRPORT	92.0	152.2	8	4	0	0	23/29	38.1	0.1	42/25	23.1	0.1	18.5/29	30.6	0.1	31
GHORAI (DANG)	111.0	118.6	12	5	1	0	28/30	34.2	0.4	38.2/25	21.6	0.0	15/1	27.9	0.2	28
JOMSOM	48.0	243.4	4	2	1	0	25/4	20.0	-1.2	22.5/25	8.9	1.3	4.5/1	14.4	0.1	0
THAKMARPHA	59.2	179.4	5	2	1	0	29.6/4	19.2	-0.3	22.5/14	5.4	-2.3	0.5/1	12.3	-1.3	0
TANSEN	136.4	151.1	16	4	1	0	25/20	28.9	0.4	32.5/24	15.5	-2.8	9/1	22.2	-1.2	13
BHAIRHAWA AIRPORT	94.5	114.9	8	3	1	0	35/27	37.1	0.8	41.9/23	24.5	0.9	20.5/2	30.8	0.8	30
POKHARA AIRPORT	314.2	87.5	20	12	4	0	49/19	30.1	0.0	33/23	18.8	0.4	14.8/2	24.4	0.2	19
LUMLE	303.9	95.2	20	8	3	2	77.5/21	22.6	-0.6	26/23	14.2	-0.1	9/1	18.4	-0.4	0
RAMPUR	78.6	45.1	13	2	0	0	16/12	32.7	-2.9	38.2/26	20.3	-1.9	14.4/19	26.5	-2.4	22
SIMARA AIRPORT	144.1	110.1	10	6	1	0	39/26	34.8	-0.1	40/25	22.9	-0.2	18/2	28.8	-0.2	31
GODAVARI	102.0	76.7	9	4	1	0	32/16	26.4	0.6	30.3/23	14.0	-0.8	9/2	20.2	-0.1	1
KATHMANDU AIRPORT	126.6	102.4	14	5	1	0	41/16	28.2	-0.5	31.6/23	16.0	0.3	10.2/2	22.1	-0.1	7
PANCHKHAL	117.2	117.8	14	3	1	0	28.3/9	30.8	-1.0	35.5/23	18.0	0.2	12.5/2	24.4	-0.4	24
DHUNIBESI	117.8	90.5	16	3	1	0	29.2/9	31.4	0.1	35/25	16.7	-2.6	12.5/5	24.1	-1.3	29
JIRI	192.7	106.4	17	6	1	0	36.1/13	23.4	0.0	28/23	10.7	-0.3	3.6/1	17.1	-0.1	0
JANAKPUR AIRPORT	92.1	71.8	9	3	2	0	29.8/26	34.4	-0.2	39.6/25	24.5	0.5	19.5/2	29.4	0.1	25
JALESORE	90.3	103.1	6	3	2	0	39/26	34.2	-1.5	39.5/25	24.7	0.4	17/5	29.5	-0.6	25
KABRE	108.2	80.1	16	3	1	0	26.2/31	24.6	-1.7	29.5/23	14.6	-0.4	10/2	19.6	-1.0	0
OKHALDHUNGA	132.1	85.9	14	5	1	0	26/10	24.9	0.3	29.4/24	15.6	0.1	11.9/5	20.2	0.2	0
LAHAN	137.1	129.1	9	3	2	0	42.2/26	34.1	-0.5	37.5/25	23.9	0.1	19/2	29.0	-0.2	30
RAJBIRAJ	182.3	143.6	13	5	3	0	48/26	32.9	-1.8	36/22	24.4	1.1	19.7/1	28.7	-0.4	27
DHANKUTA	158.3	146.2	14	4	3	0	44/10	28.1	1.5	30.7/29	18.2	0.3	13.5/2	23.1	0.9	4
DHARAN	91.4	49.6	9	4	0	0	23.2/25	32.6	-0.2	35.4/29	23.6	0.0	19.5/2	28.1	-0.1	21
BIRATNAGAR AIRPORT	172.5	92.7	15	7	2	0	47/26	33.6	0.2	36.8/24	23.9	0.6	17.7/2	28.7	0.4	28
TARAHARA	211.4	112.1	16	8	3	0	30/16	33.6	0.6	36.5/18	22.8	0.0	17/2	28.2	0.3	30
KHADBARI	203.9	138.5	18	6	3	0	36.8/9	27.0	-1.6	30/23	18.4	-0.4	14.8/2	22.7	-1.0	3
TAPLEJUNG	223.9	95.2	19	10	1	0	45/28	24.5	1.0	27/24	15.4	0.9	11.2/7	20.0	1.0	0
KANKAI	180.7	85.3	15	4	3	0	40/27	33.4	0.2	36/29	21.6	0.0	16.5/2	27.5	0.1	29