Government of Nepal

Ministry of Energy, Water Resources and Irrigation

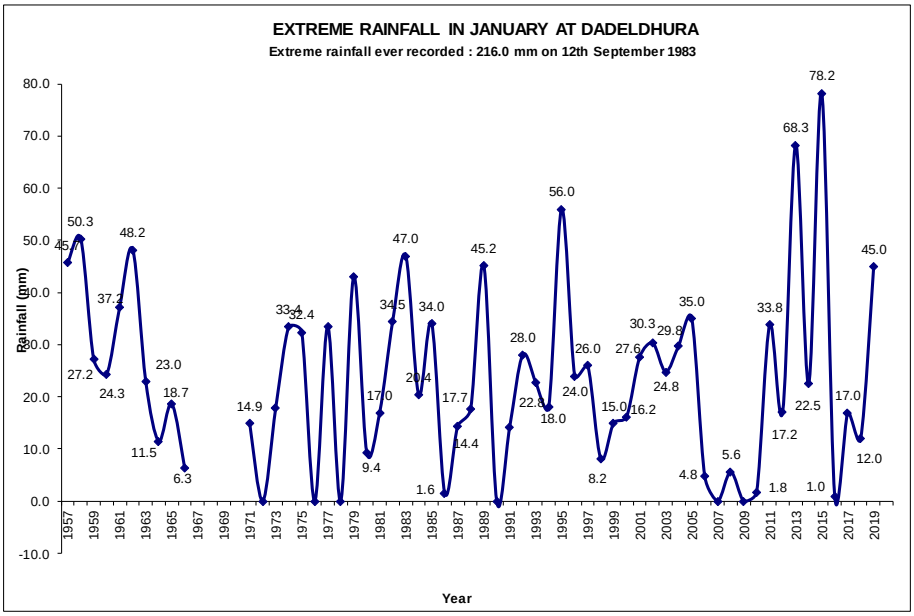
Department of Hydrology and Meteorology

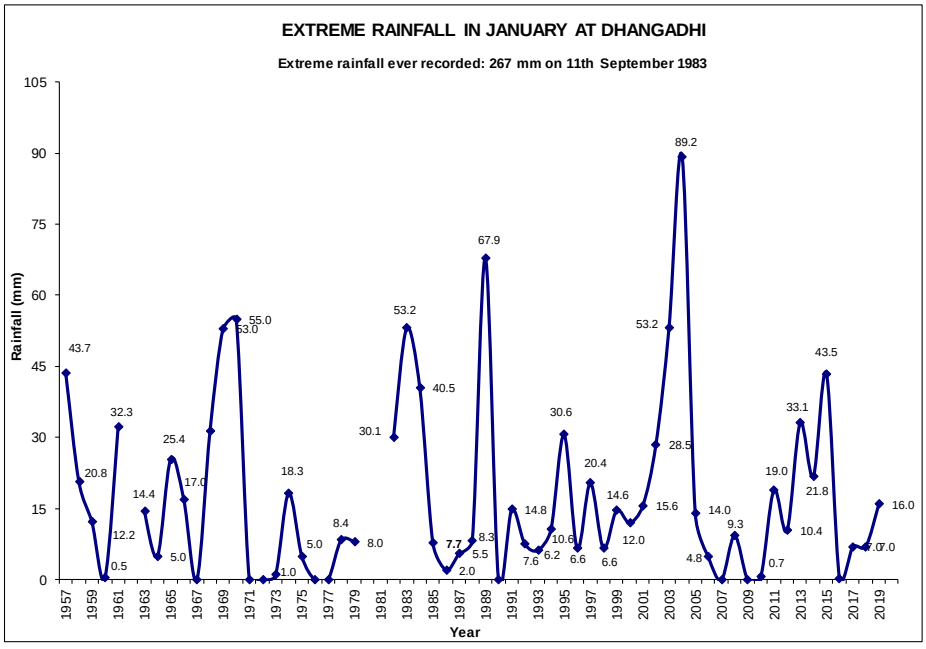
Nagpokhari, Kathmandu, Nepal.

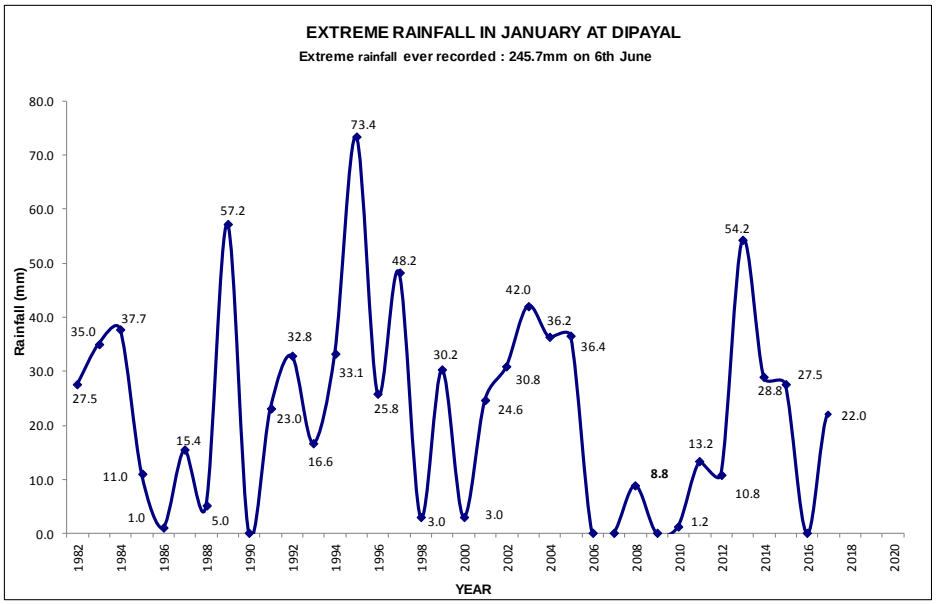
EXTREME RAINFALL JANUARY

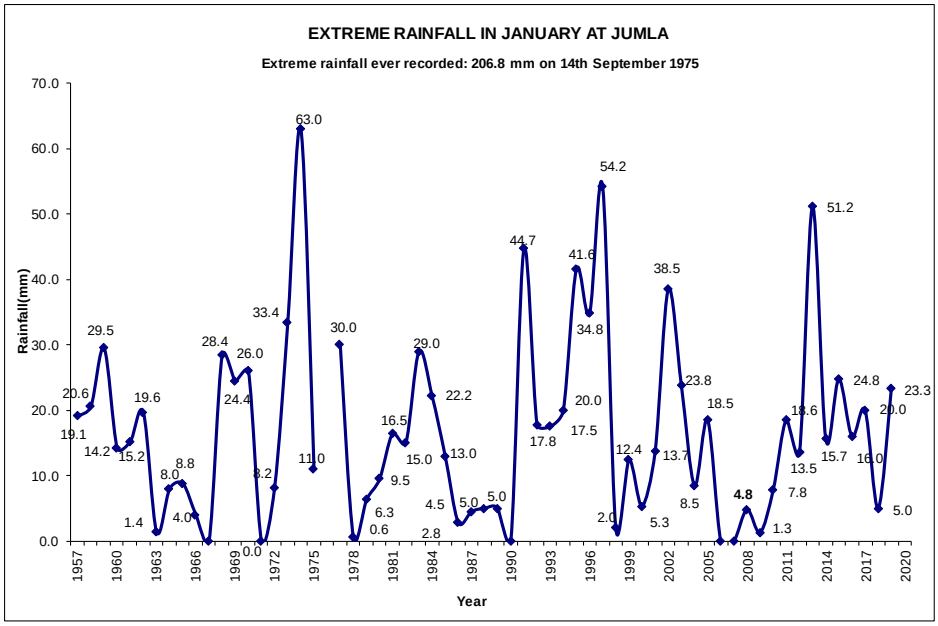
(FOR SELECTED STATIONS)

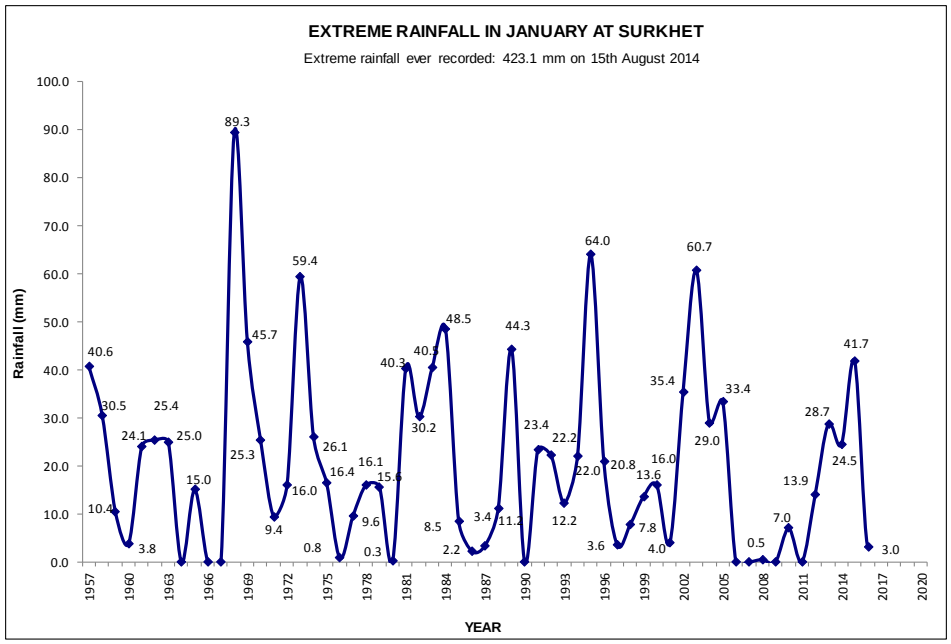
Note: January is the coldest month of the year. It is not the driest month. However it receives less rainfall compared to other months. The stations selected in this monitoring shows the maximum rain recorded in January month in the station at Surkhet in the Mid-western region of Nepal of 89.3mm on 29th January 1968. This record is observed because Nepal receives the rain from West due to the western disturbance during winter (December-February) and from the East during the Monsoon months. January rainfall at Nepalgunj surpassed its previous record from 40.4mm to 44.0mmon on 26th January 2019. Rainfall trends in January for the stations selected below are shown in Table 1.

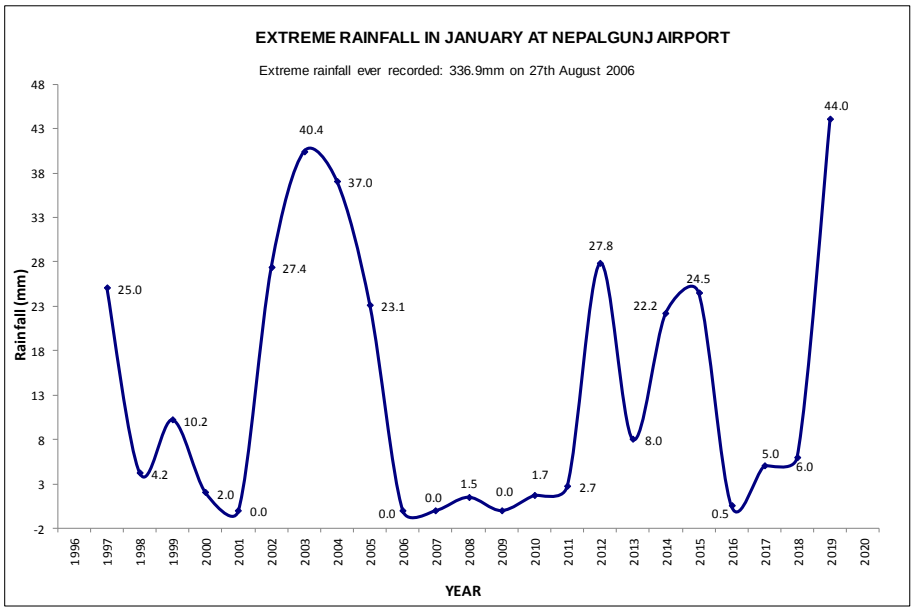


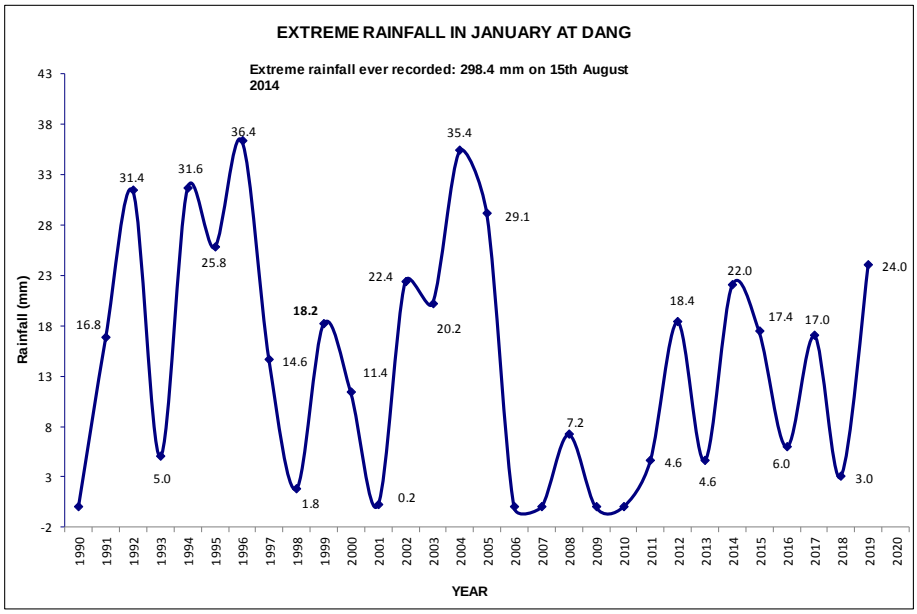


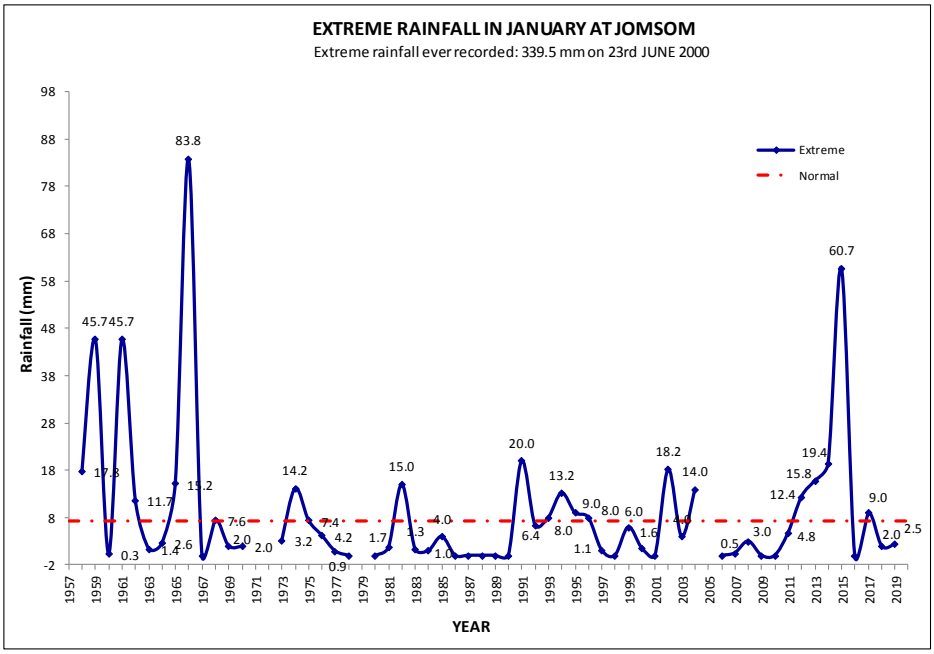

EXTREME RAINFALL IN JANUARY AT DIPAYAL
Extreme rainfall ever recorded : 245.7mm on 6th June
Rainfall (mm)
YEAR
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
35.0
37.7
27.5
11.0
1.0
15.4
5.0
57.2
23.0
32.8
16.6
33.1
73.4
25.8
48.2
3.0
30.2
3.0
24.6
30.8
42.0
36.2
36.4
8.8
1.2
13.2
10.8
54.2
28.8
27.5
22.0

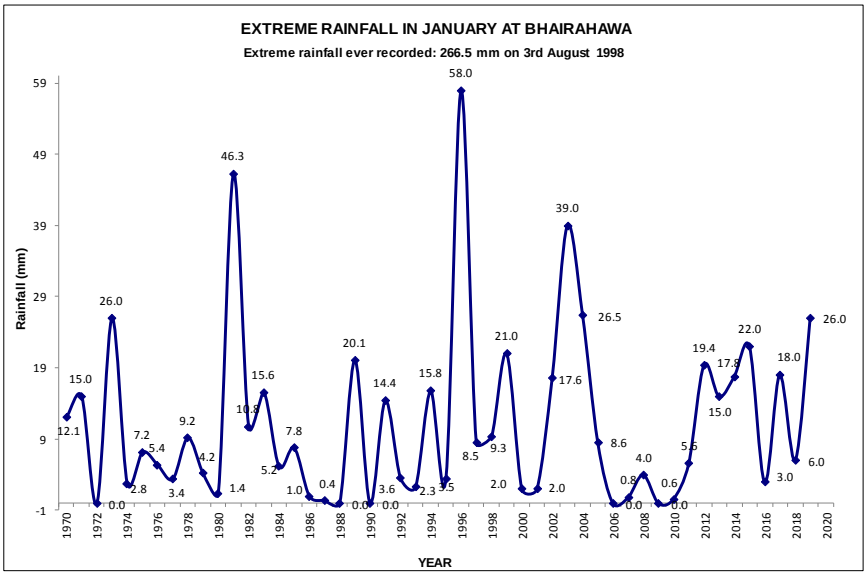

EXTREME RAINFALL IN JANUARY AT JUMLA
Extreme rainfall ever recorded: 206.8 mm on 14th September 1975
Rainfall(mm)
Year
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
1957
1960
1963
1966
1969
1972
1975
1978
1981
1984
1987
1990
1993
1996
1999
2002
2005
2008
2011
2014
2017
2020
20.6
29.5
19.1
14.2
15.2
19.6
1.4
8.0
8.8
4.0
28.4
24.4
26.0
0.0
3.2
33.4
63.0
11.0
30.0
0.6
6.3
9.5
16.5
15.0
29.0
22.2
13.0
2.8
4.5
5.0
5.0
44.7
17.8
41.6
34.8
20.0
17.5
54.2
2.0
12.4
5.3
38.5
13.7
23.8
8.5
18.5
4.8
1.3
7.8
13.5
18.6
51.2
15.7
24.8
16.0
20.0
5.0
23.3

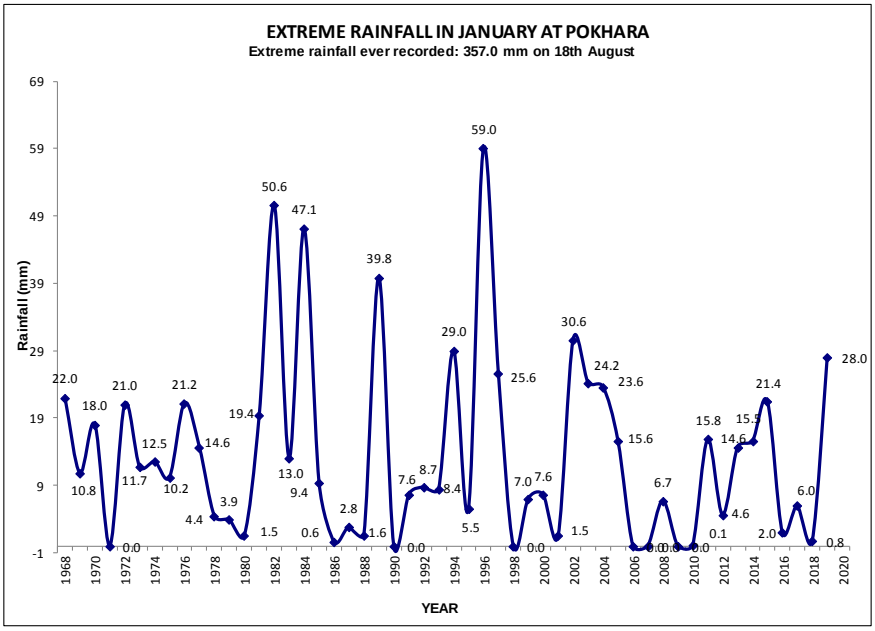

EXTREME RAINFALL IN JANUARY AT SURKHET
Extreme rainfall ever recorded: 423.1 mm on 15th August 2014
Rainfall (mm)
YEAR
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
1957
1960
1963
1966
1969
1972
1975
1978
1981
1984
1987
1990
1993
1996
1999
2002
2005
2008
2011
2014
2017
2020
40.6
30.5
10.4
3.8
24.1
25.4
25.0
15.0
89.3
25.3
45.7
9.4
59.4
16.0
0.8
26.1
16.4
9.6
16.1
15.6
0.3
40.3
40.1
30.2
48.5
8.5
2.2
3.4
11.2
44.3
23.4
22.2
12.2
22.0
64.0
3.6
20.8
7.8
13.6
16.0
4.0
35.4
60.7
29.0
33.4
0.5
7.0
13.9
28.7
24.5
41.7
3.0

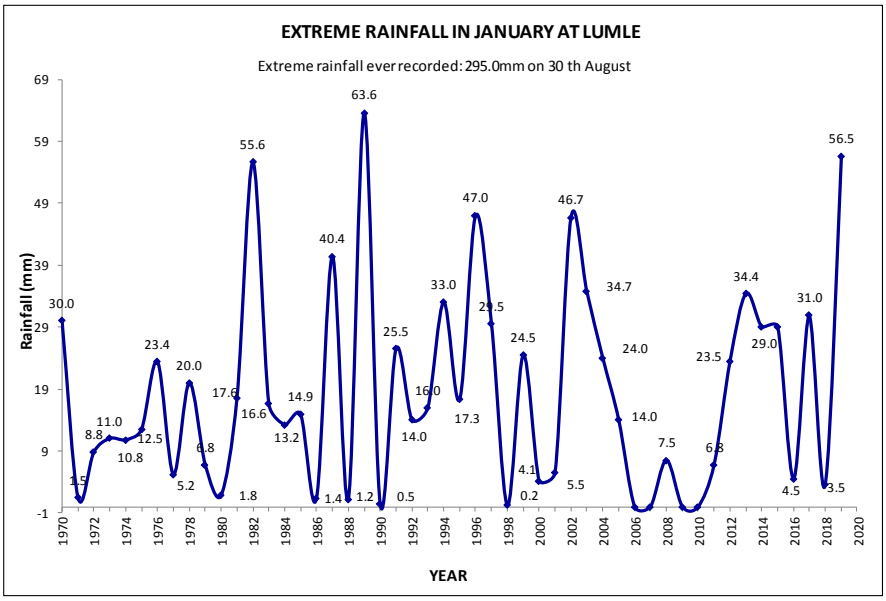

EXTREME RAINFALL IN JANUARY AT NEPALGUNJ AIRPORT
Extreme rainfall ever recorded: 336.9mm on 27th August 2006
Rainfall (mm)
YEAR

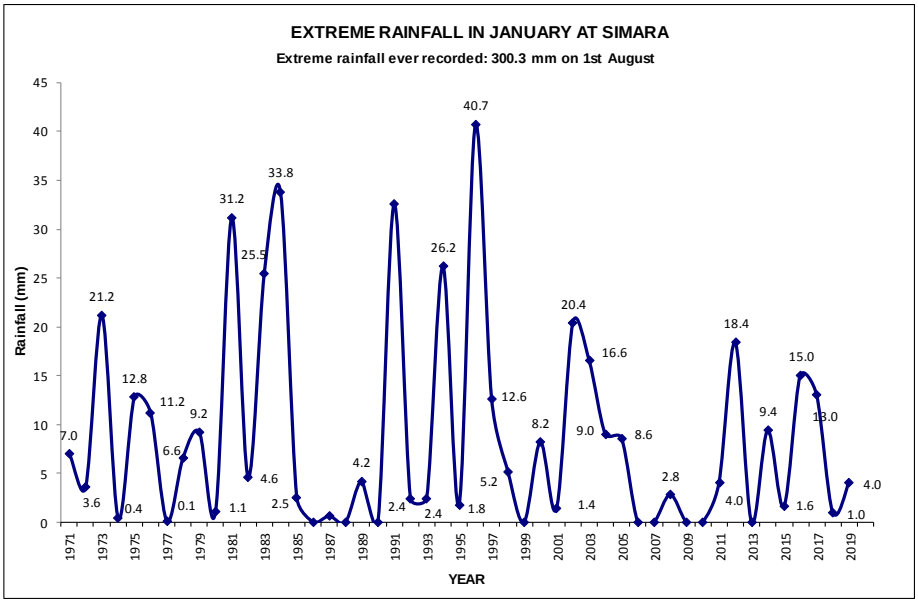

EXTREME RAINFALL IN JANUARY AT DANG
Extreme rainfall ever recorded: 298.4 mm on 15th August 2014
Rainfall (mm)
YEAR

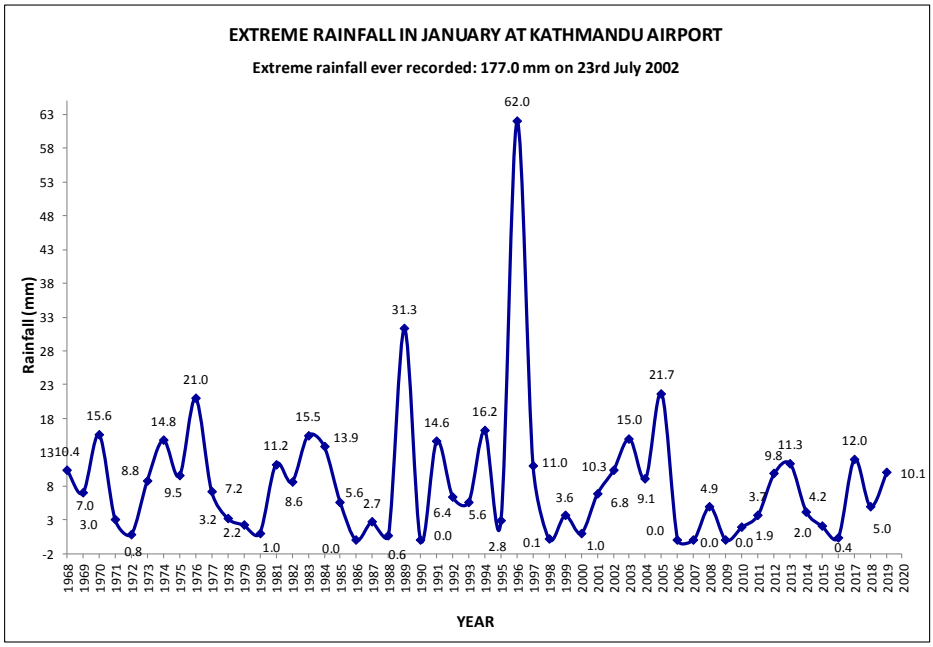

EXTREME RAINFALL IN JANUARY AT JOMSOM
Extreme rainfall ever recorded: 339.5 mm on 23rd JUNE 2000
Extreme
Normal
Rainfall (mm)
YEAR

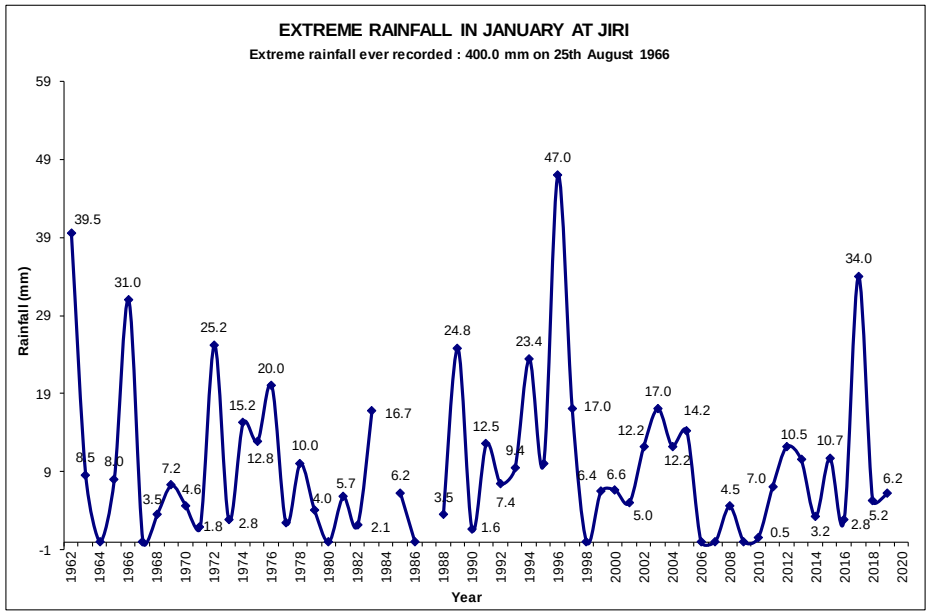

EXTREME RAINFALL IN JANUARY AT BHAIRAHAWA
Extreme rainfall ever recorded: 266.5 mm on 3rd August 1998
Rainfall (mm)
YEAR

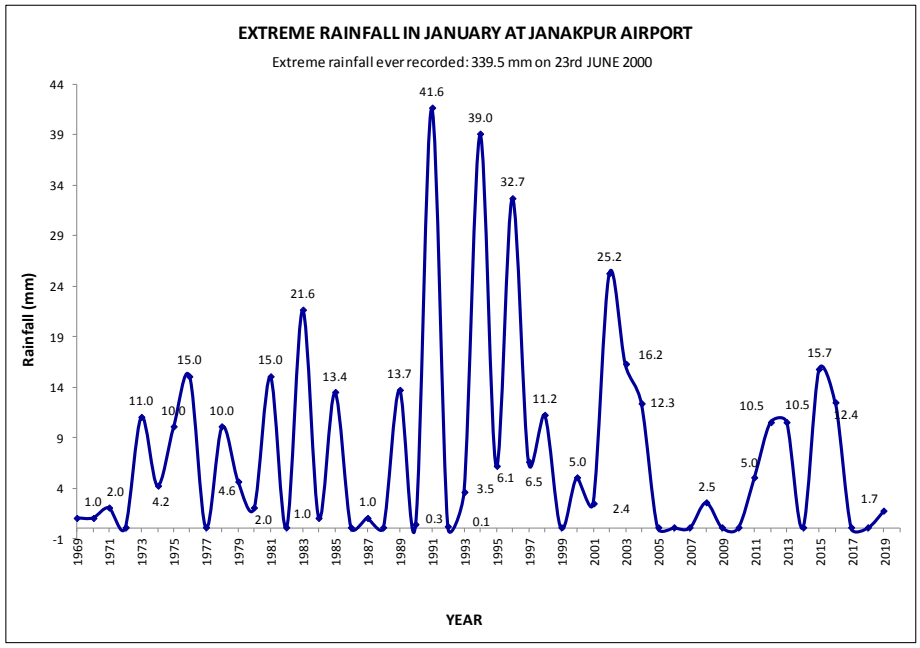

EXTREME RAINFALL IN JANUARY AT POKHARA
Extreme rainfall ever recorded: 357.0 mm on 18th August
Rainfall (mm)
YEAR

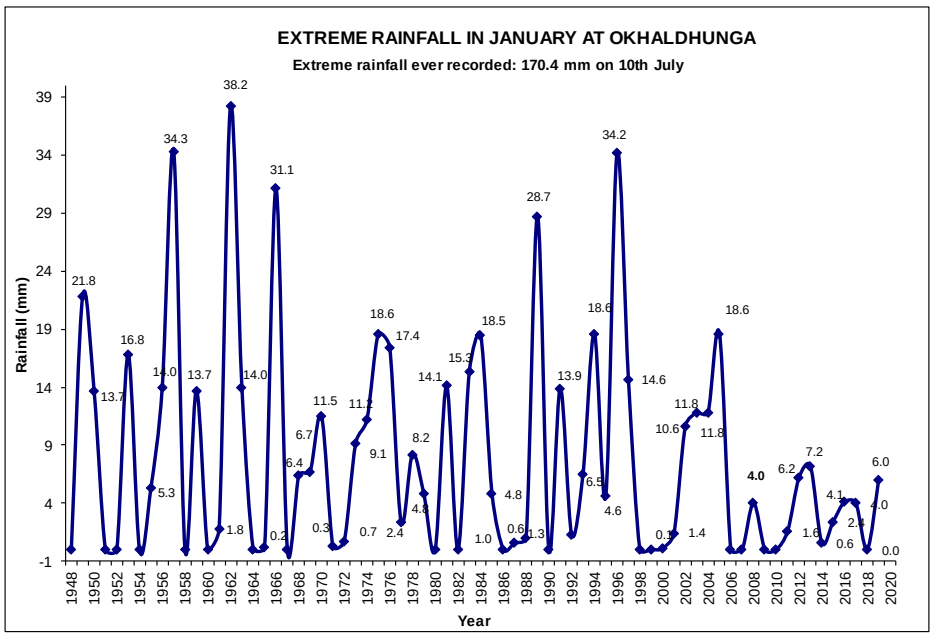

EXTREME RAINFALL IN JANUARY AT LUMLE
Extreme rainfall ever recorded: 295.0mm on 30 th August
Rainfall (mm)
YEAR

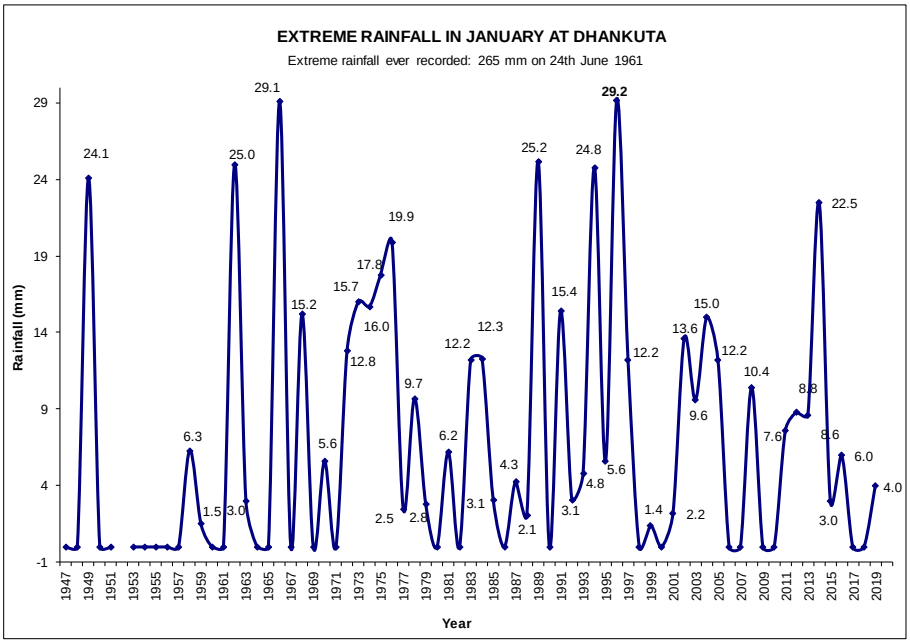

EXTREME RAINFALL IN JANUARY AT SIMARA
Extreme rainfall ever recorded: 300.3 mm on 1st August
Rainfall (mm)
YEAR

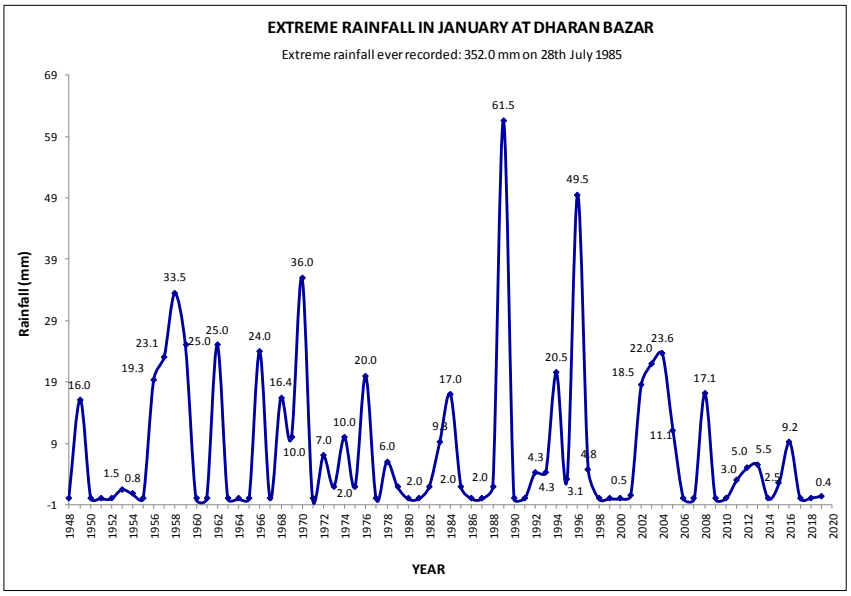

EXTREME RAINFALL IN JANUARY AT KATHMANDU AIRPORT
Extreme rainfall ever recorded: 177.0 mm on 23rd July 2002
Rainfall (mm)
YEAR

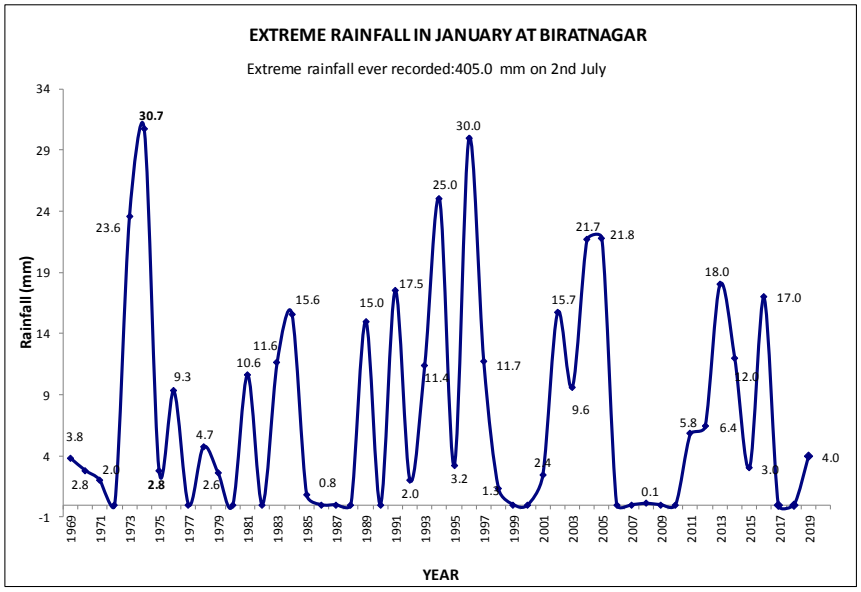

EXTREME RAINFALL IN JANUARY AT JIRI
Extreme rainfall ever recorded : 400.0 mm on 25th August 1966
Rainfall (mm)
Year


EXTREME RAINFALL IN JANUARY AT JANAKPUR AIRPORT
Extreme rainfall ever recorded: 339.5 mm on 23rd JUNE 2000
Rainfall (mm)
YEAR


EXTREME RAINFALL IN JANUARY AT OKHALDHUNGA
Extreme rainfall ever recorded: 170.4 mm on 10th July
Rainfall (mm)
Year


EXTREME RAINFALL IN JANUARY AT DHANKUTA
Extreme rainfall ever recorded: 265 mm on 24th June 1961
Rainfall (mm)
Year


EXTREME RAINFALL IN JANUARY AT DHARAN BAZAR
Extreme rainfall ever recorded: 352.0 mm on 28th July 1985
Rainfall (mm)
YEAR


EXTREME RAINFALL IN JANUARY AT BIRATNAGAR
Extreme rainfall ever recorded:405.0 mm on 2nd July
Rainfall (mm)
YEAR

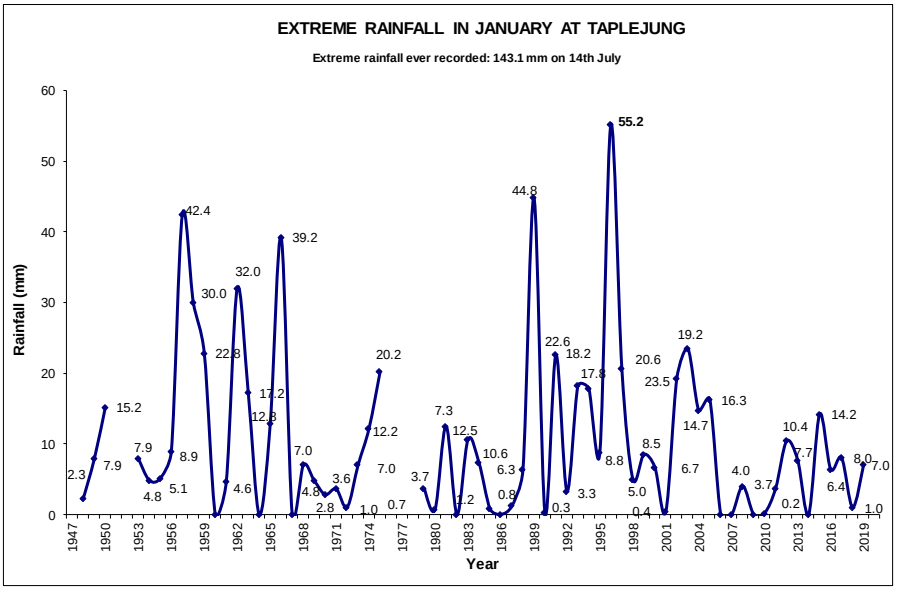

EXTREME RAINFALL IN JANUARY AT TAPLEJUNG
Extreme rainfall ever recorded: 143.1 mm on 14th July
Rainfall (mm)
Year

Table 1

Extreme Rainfall trends			
Stations/Month	January	Stations/Month	January
Dadeldhura	Falling	Kathmandu	Falling
Dipayal	Falling	Okhaldhunga	Falling
Dhangadhi	No trend	Taplejung	No trend
Surkhet	Falling	Dhankuta	Rising
Nepalgunj	Falling	Biratnagar	Rising
Jumla	No trend	Jomsom	Falling
Dang	Falling	Dharan	Falling
Pokhara	Falling	Lumle	No trend
Bhairahawa	No trend	Janakpur	Rising
Simara	Falling	Jiri	Falling

Fig 2: Map of Nepal showing the synoptic stations