



COVID-19 Trends

Data sources

1. Ministry of Health and Population- Nepal: <https://covid19.mohp.gov.np/>
2. <https://covid19.ndrrma.gov.np/>
3. Git Hub: https://github.com/CSSEGISandData/COVID-19/blob/master/csse_covid_19_data/csse_covid_19_time_series/time_series_covid19_confirmed_global.csv
4. <https://www.worldlifeexpectancy.com/>
5. Worldometer: <https://www.worldometers.info/coronavirus/>
6. https://en.wikipedia.org/wiki/COVID-19_pandemic_in_Nepal
7. <https://www.covid19india.org/>
8. Population source: <https://unstats.un.org/unsd/demographic-social/census/documents/Nepal/Nepal-Census-2011-Vol1.pdf>
9. WHO situation reports

Prepared By:

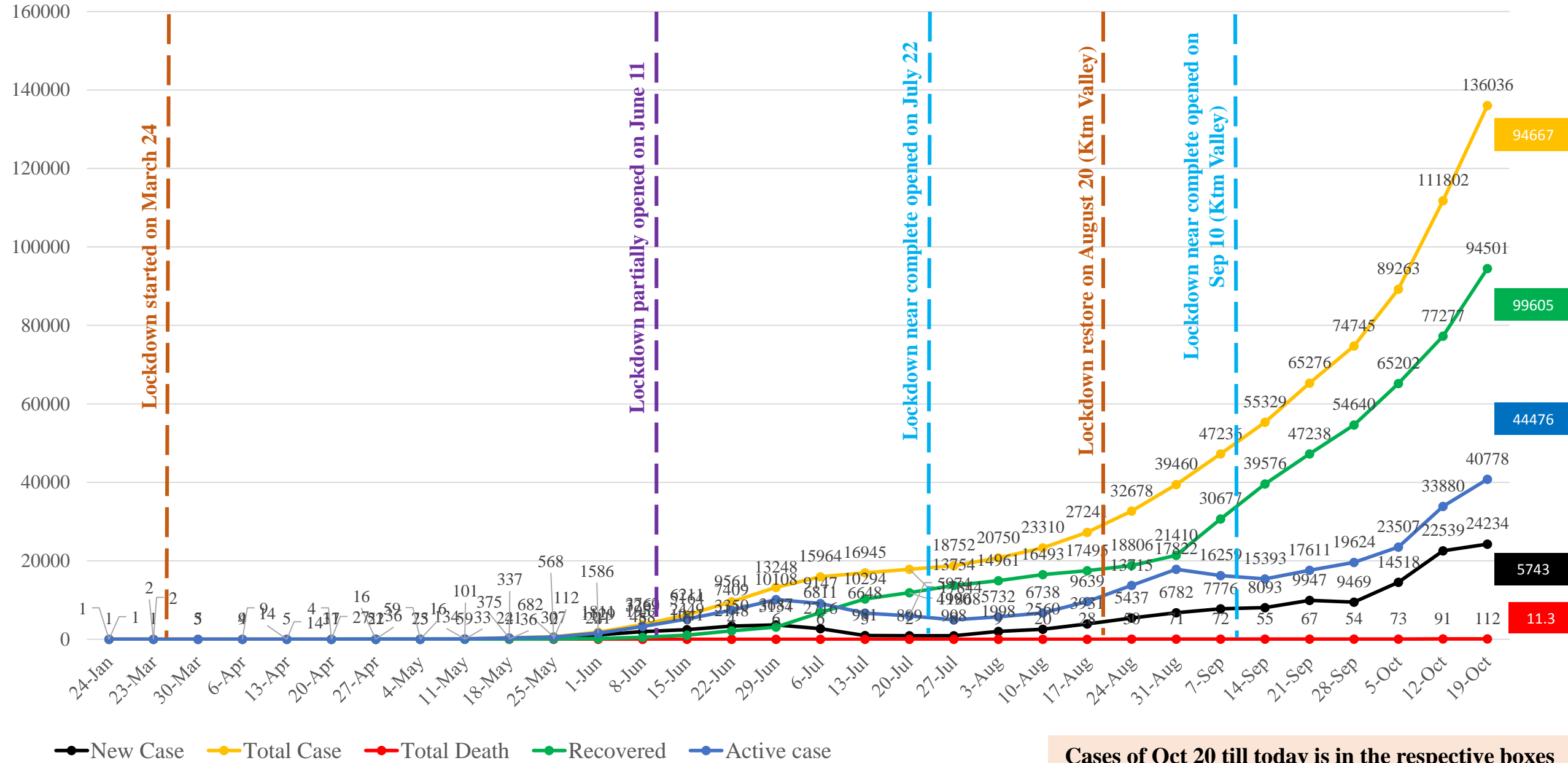
1. Basudev Bhattarai
2. Jagriti Paudel
3. Neshan Rai
4. Nikita Pradhan
5. Prakriti Sharma
6. Prapti Sharma

October 21, 2020



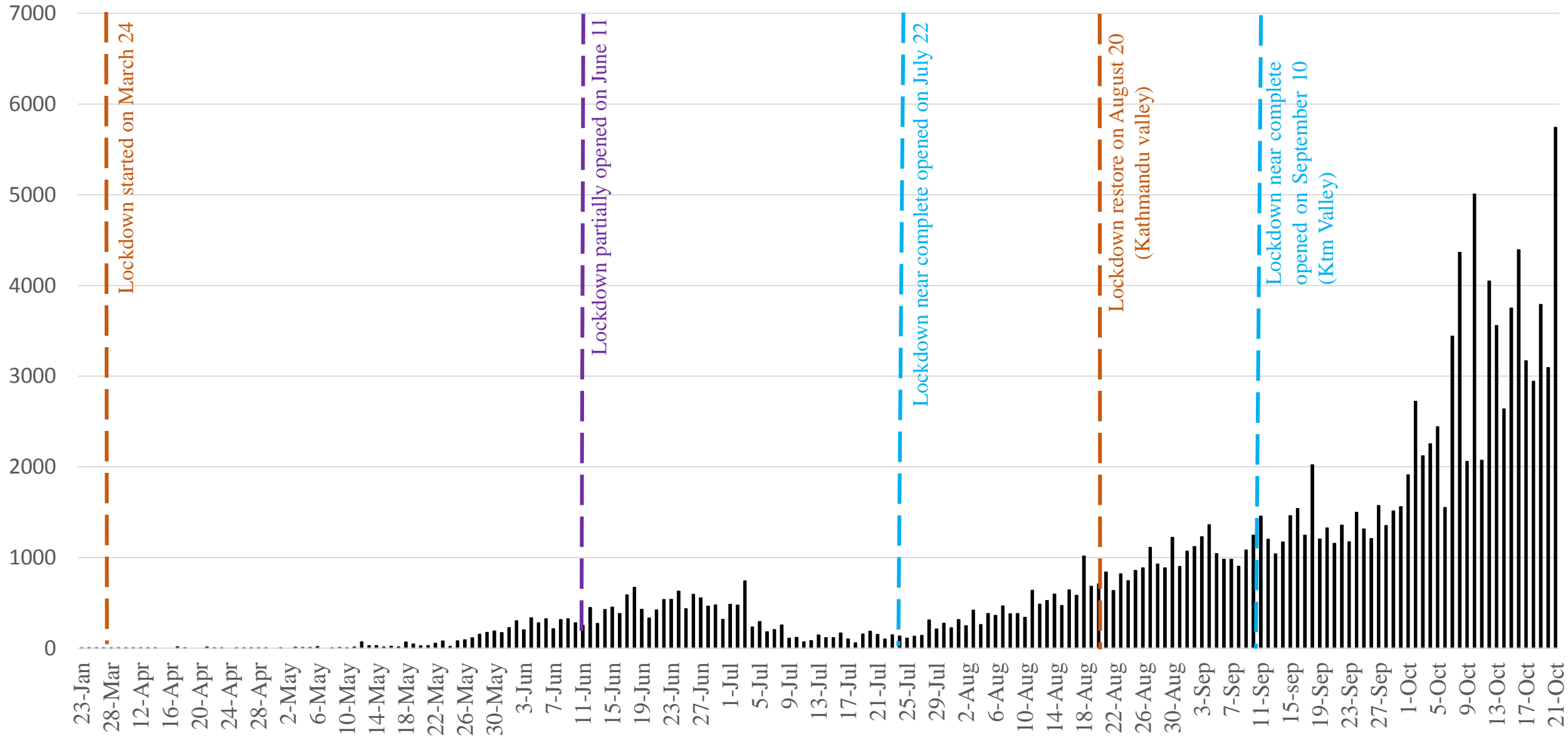
COVID 19 trends in Nepal (7 days)

Data Source: Ministry of Health and Population- Nepal:
<https://covid19.mohp.gov.np/>





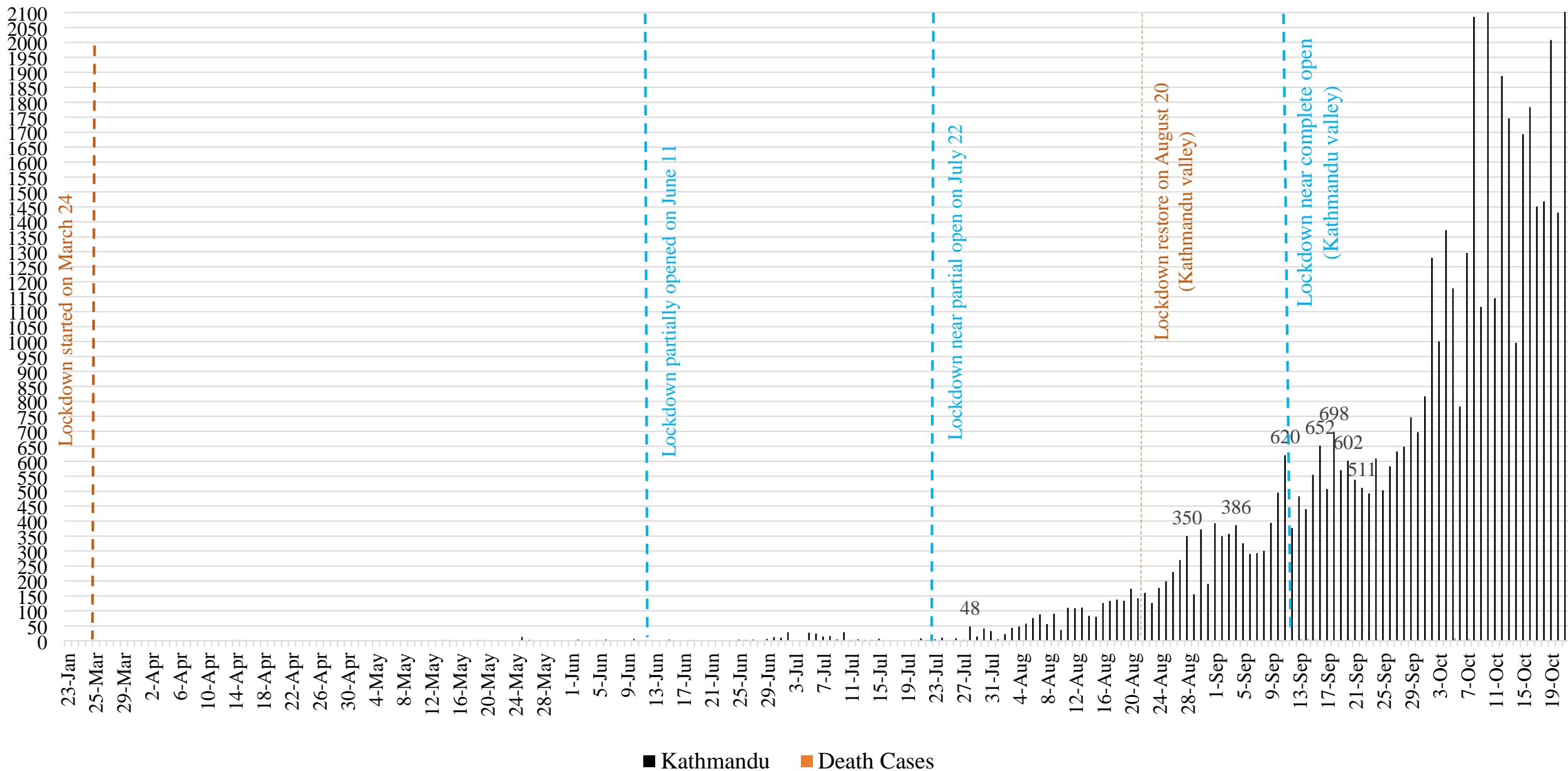
Nepal New Case





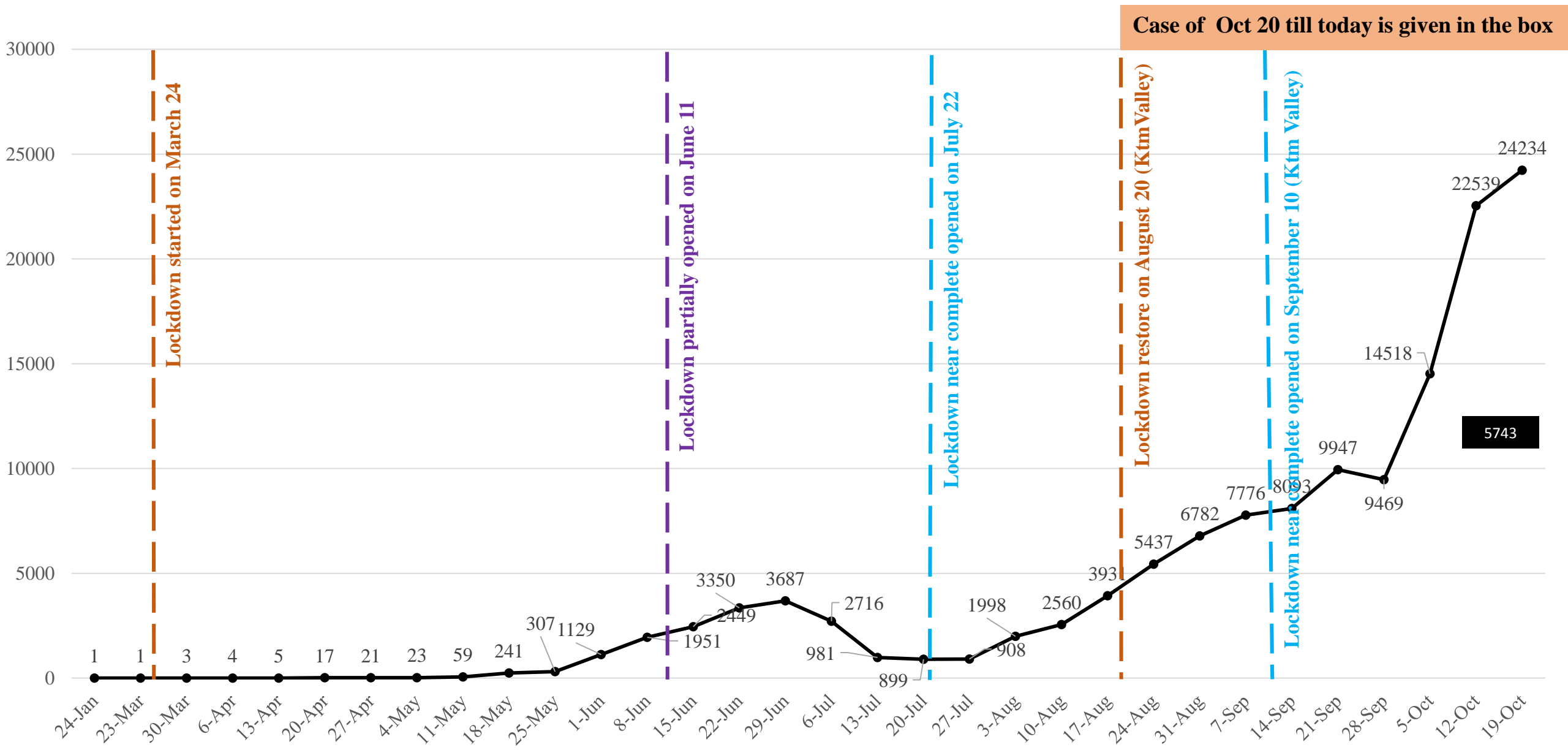
Kathmandu Daily Case

Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>





New Case Trends of Nepal (7 days)

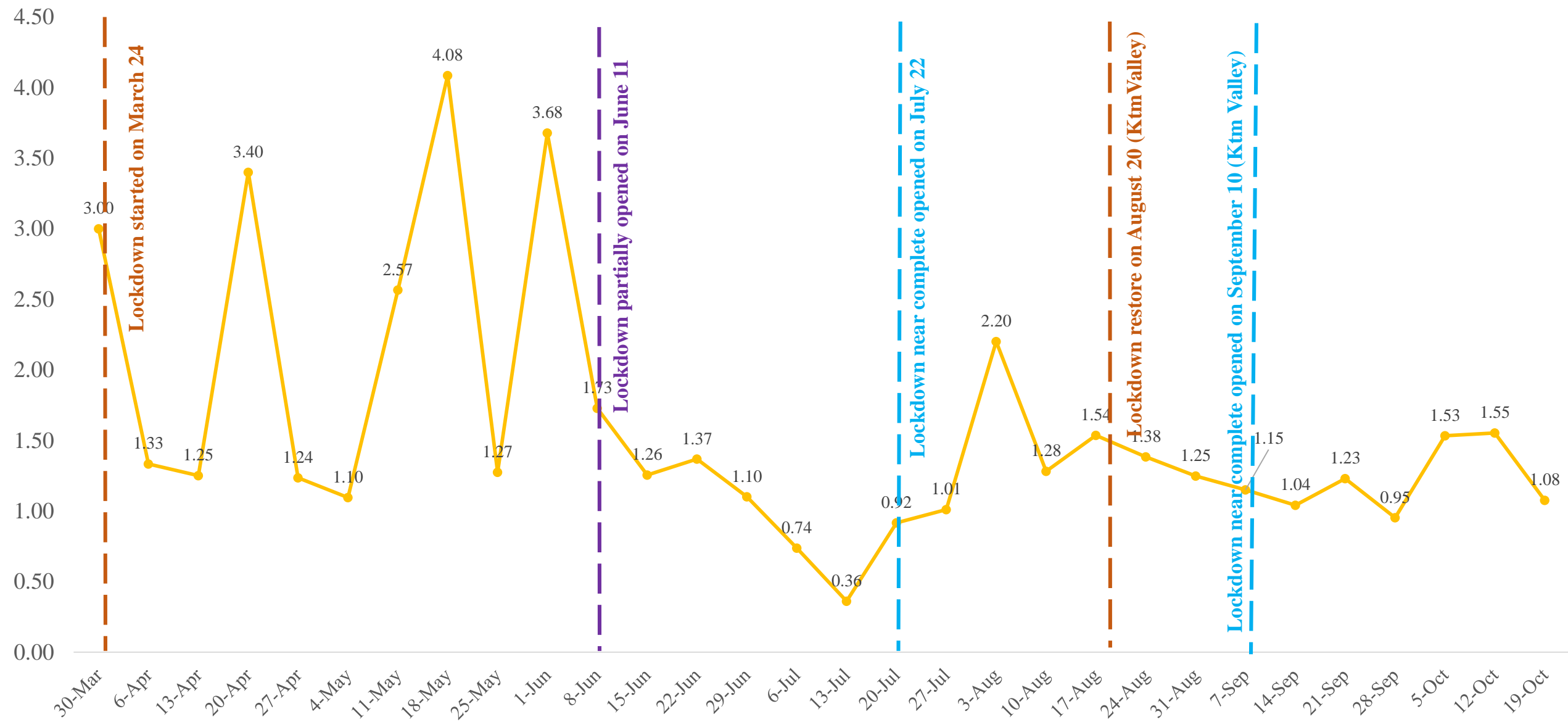


Case of Oct 20 till today is given in the box

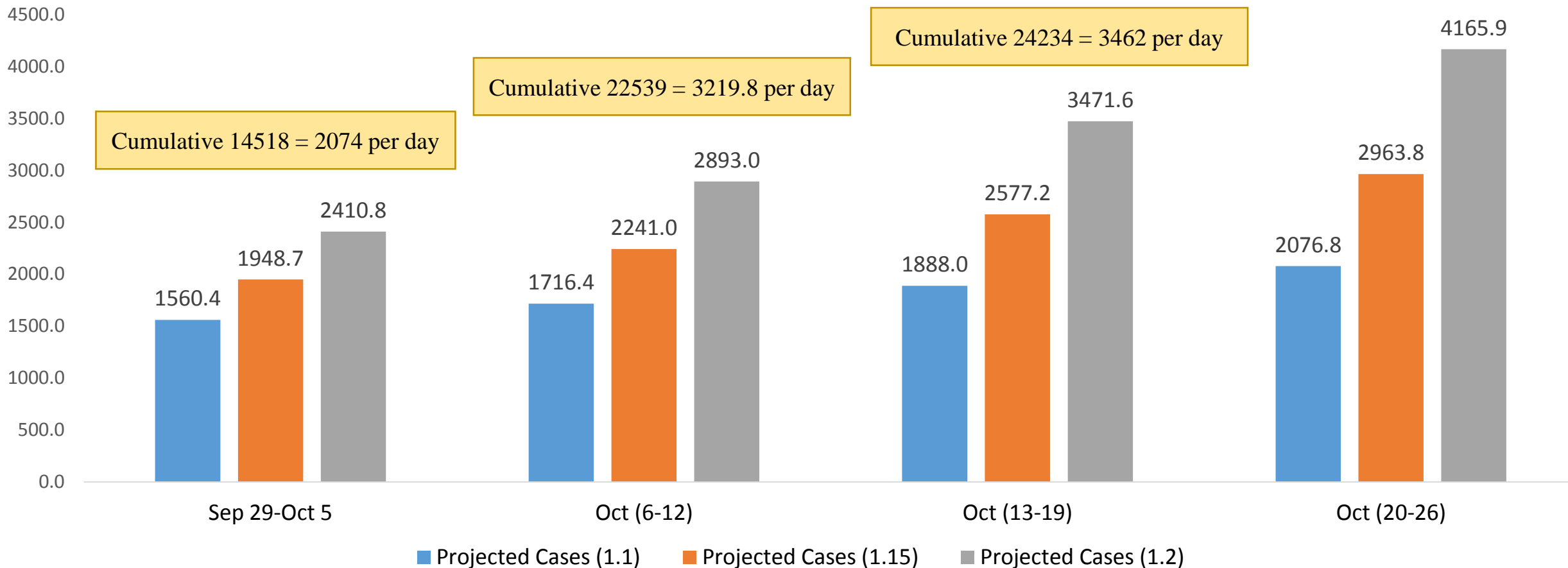
5743



Reproduction number (RT) of Overall Nepal 7 days



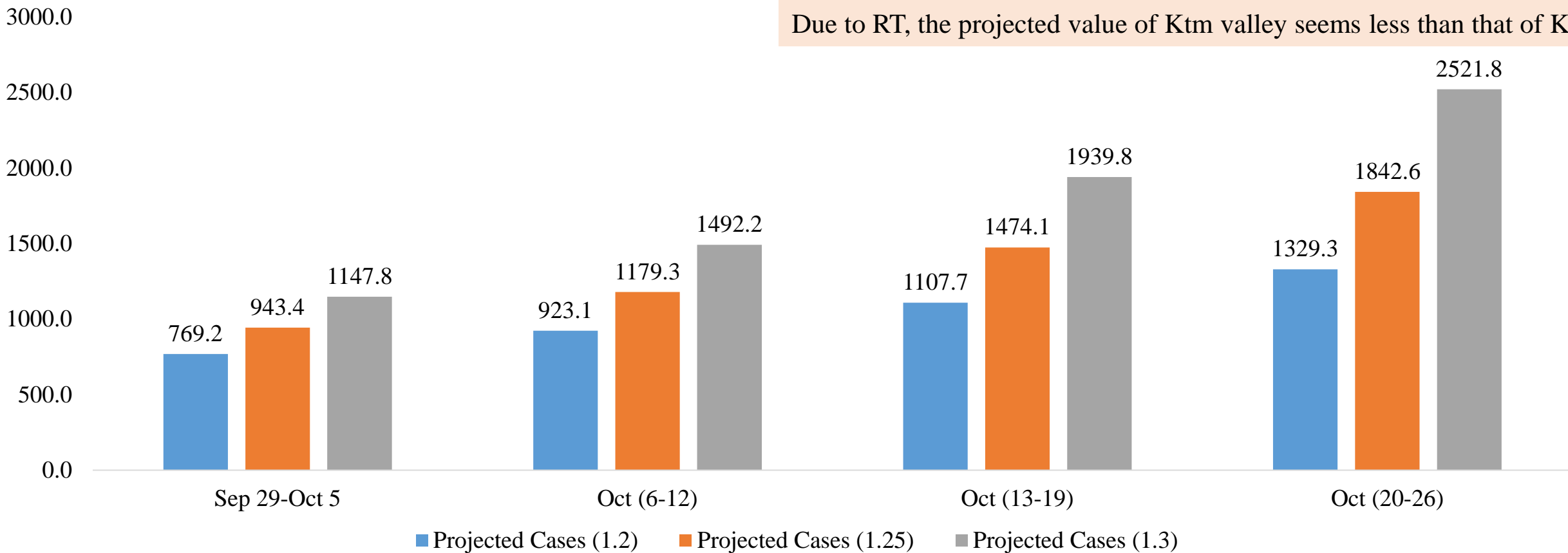
Projected Cases of Overall Nepal



Overall Nepal		31-Aug	Prediction per week (Sept)				Prediction per week (Oct)				Average (per day)				Average (per day)			
	D1	7 days Cumulative	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week
	1.1	6782	7460.2	8206.2	9026.8	9929.5	10922.5	12014.7	13216.2	14537.8	1065.7	1172.3	1289.5	1418.5	1560.4	1716.4	1888.0	2076.8
	1.15	6782	7799.3	8969.2	10314.6	11861.8	13641.0	15687.2	18040.3	20746.3	1114.2	1281.3	1473.5	1694.5	1948.7	2241.0	2577.2	2963.8
	1.2	6782	8138.4	9766.1	11719.3	14063.2	16875.8	20251.0	24301.1	29161.4	1162.6	1395.2	1674.2	2009.0	2410.8	2893.0	3471.6	4165.9

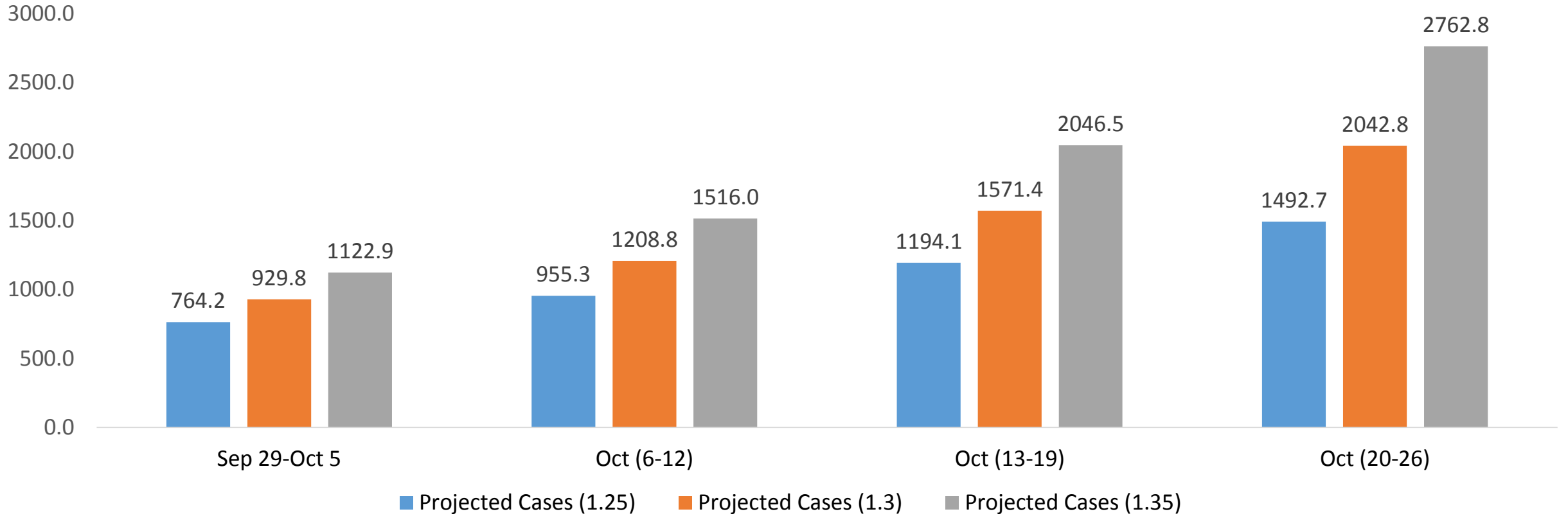
Projected Cases of Kathmandu Valley

Due to RT, the projected value of Ktm valley seems less than that of Ktm



30-Aug	Difference	Cumulative Aug 23 to August30	Prediction per week (Sept)				Prediction per week (Oct)				Average per week				Average per week (Oct)			
			1st week	2nd week	3rd week	4th week	1st week	2nd week	3rd week	4th week	1st Week	2nd week	3rd week	4th week	1st Week	2nd week	3rd week	4th week
	1.2	2164	2596.80	3116.16	3739.39	4487.27	5384.72	6461.67	7754.00	9304.80	370.97	445.17	534.20	641.04	769.25	923.10	1107.71	1329.26
1.25	1.25	2164	2705.00	3381.25	4226.56	5283.20	6604.00	8255.00	10318.76	12898.45	386.43	483.04	603.79	754.74	943.43	1179.29	1474.11	1842.64
	1.3	2164	2813.20	3657.16	4754.31	6180.60	8034.78	10445.21	13578.78	17652.41	401.89	522.45	679.19	882.94	1147.83	1492.17	1939.83	2521.77

Projected Cases of Kathmandu

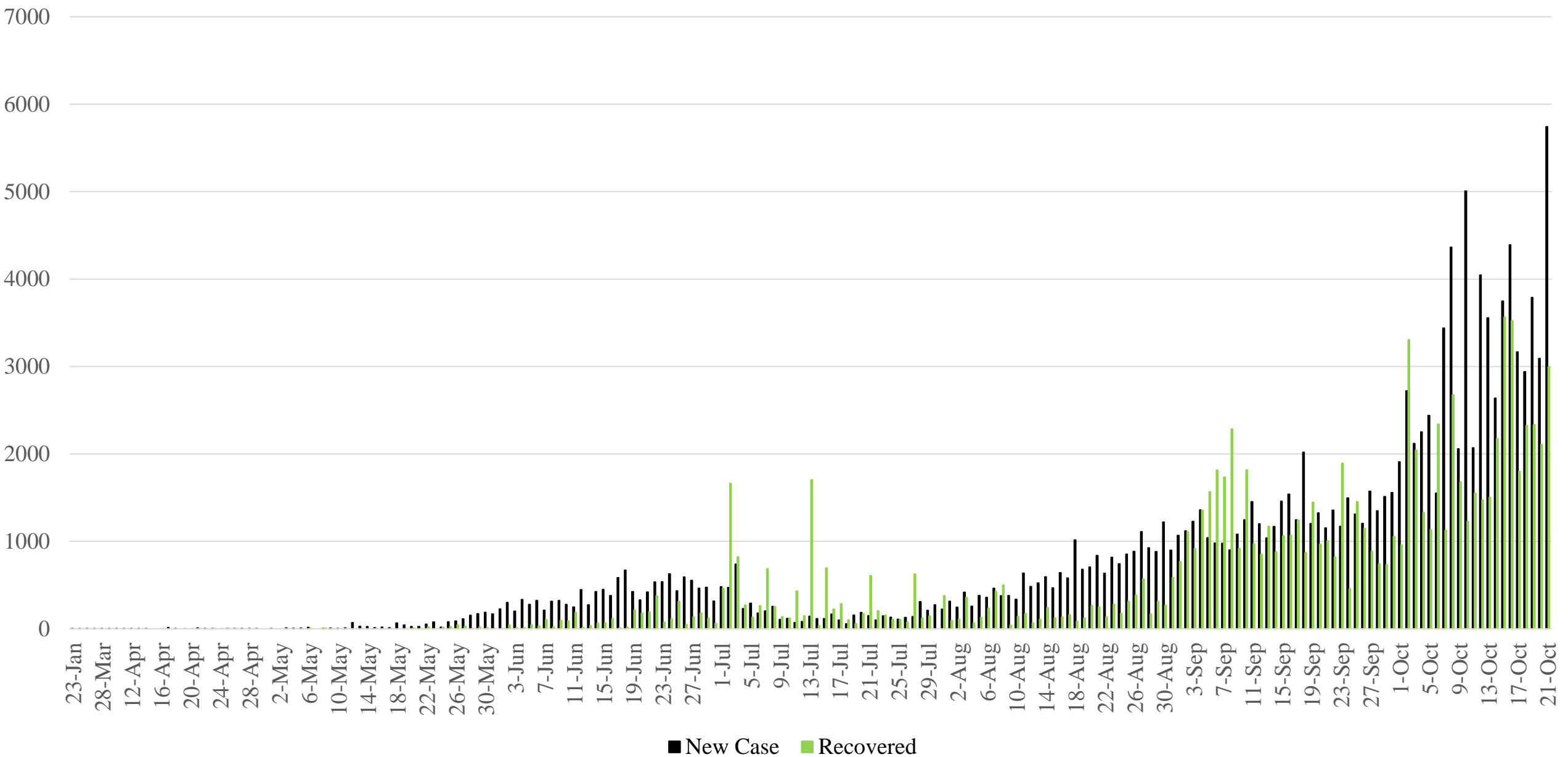


	31-Aug	Prediction per week (Sept)				Prediction per week (Oct)				Average (per day)				Average (per day)			
D1	7 days Cumulative	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week	1 st week	2 nd week	3 rd week	4 th week
1.25	1753	2191.25	2739.06	3423.83	4279.79	5349.73	6687.16	8358.96	10448.69	313.04	391.29	489.12	611.40	764.25	955.31	1194.14	1492.67
1.30	1753	2278.90	2962.57	3851.34	5006.74	6508.77	8461.40	10999.82	14299.76	325.56	423.22	550.19	715.25	929.82	1208.77	1571.40	2042.82
1.35	1753	2366.55	3194.84	4313.04	5822.60	7860.51	10611.69	14325.78	19339.80	338.08	456.41	616.15	831.80	1122.93	1515.96	2046.54	2762.83



Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>

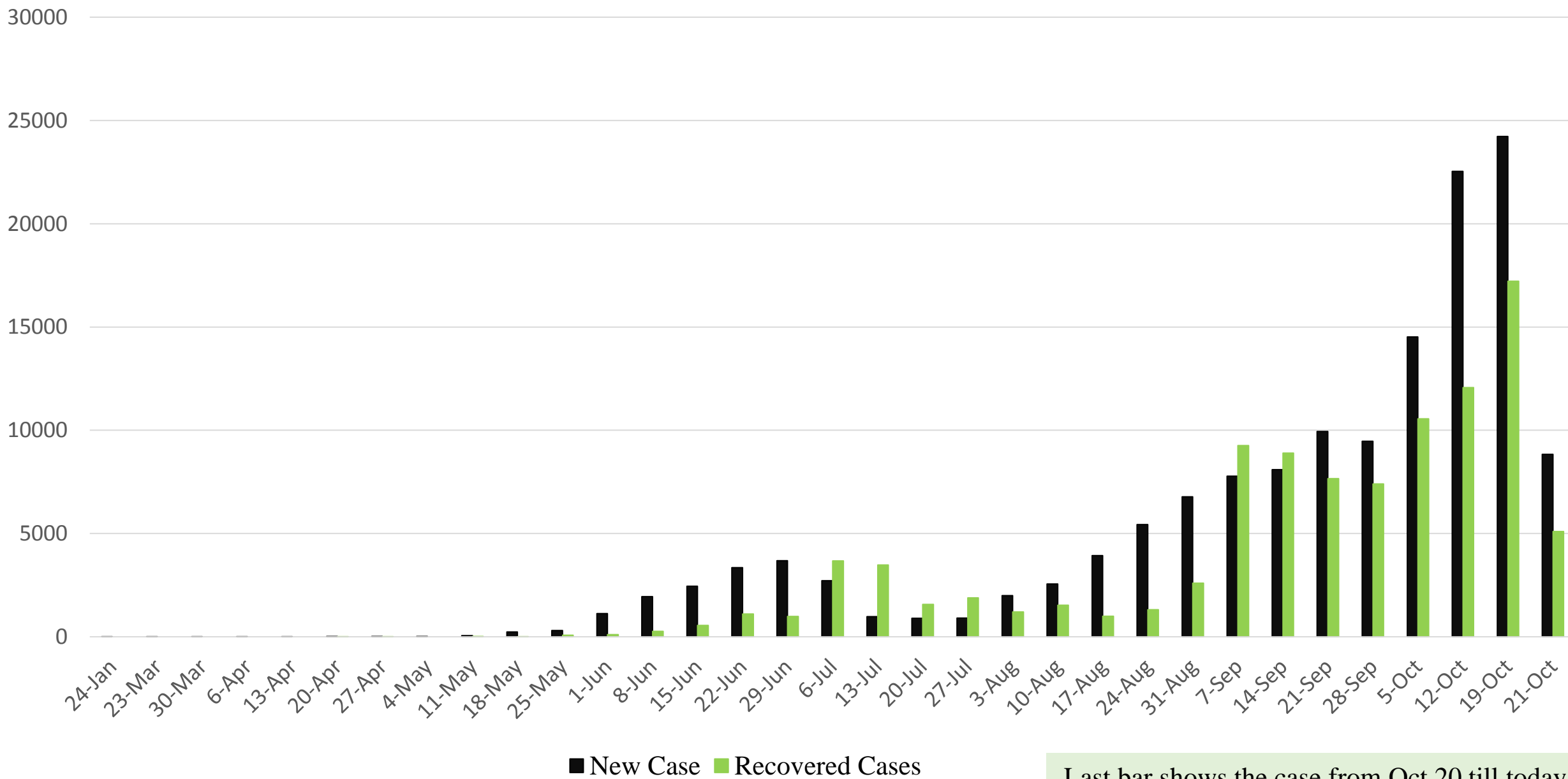
Daily New Case and Recovered Case





Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>

Weekly New Case and Recovered Cases

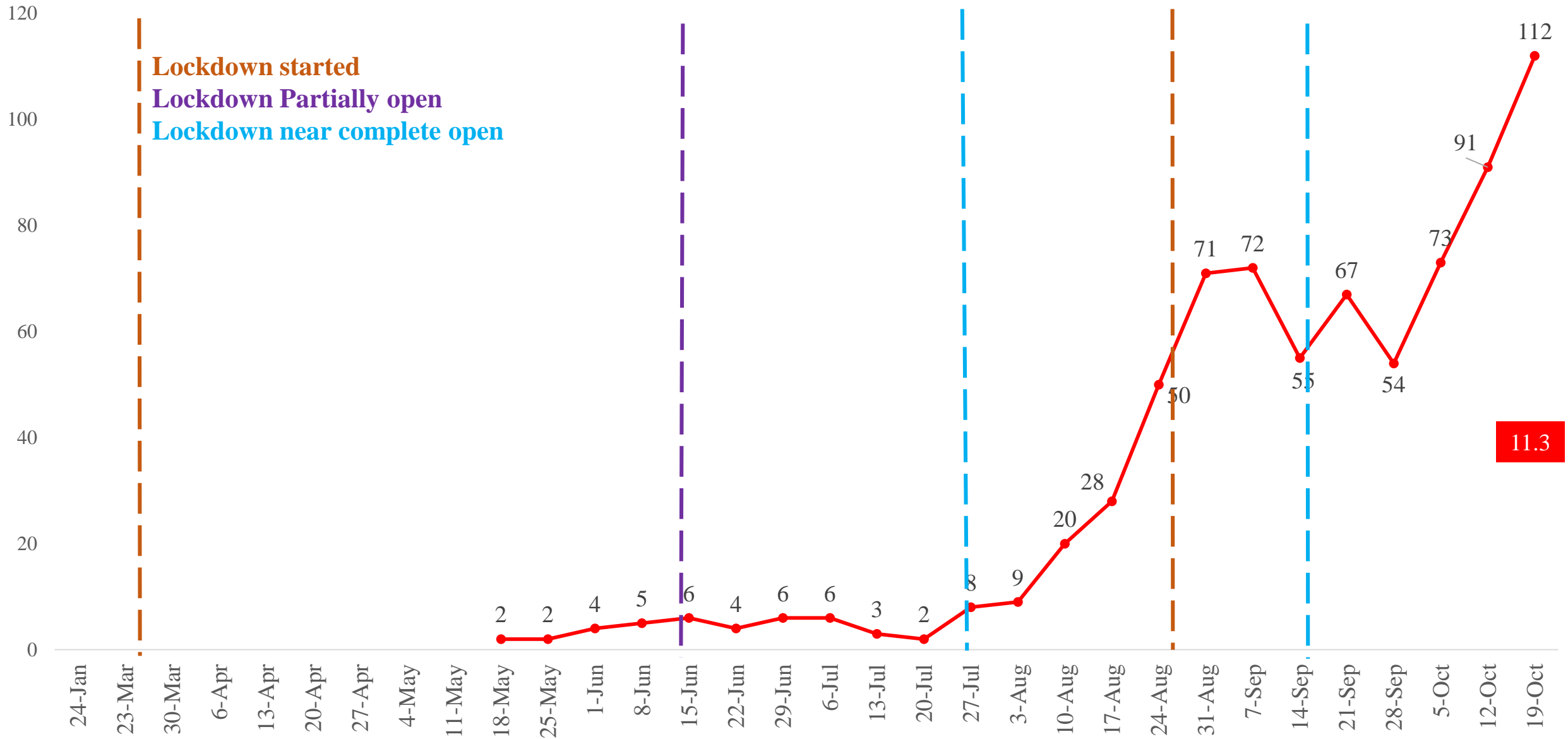


Last bar shows the case from Oct 20 till today



New Death Trends of Nepal (7 days)

Death of Oct 20 till today is given in the box





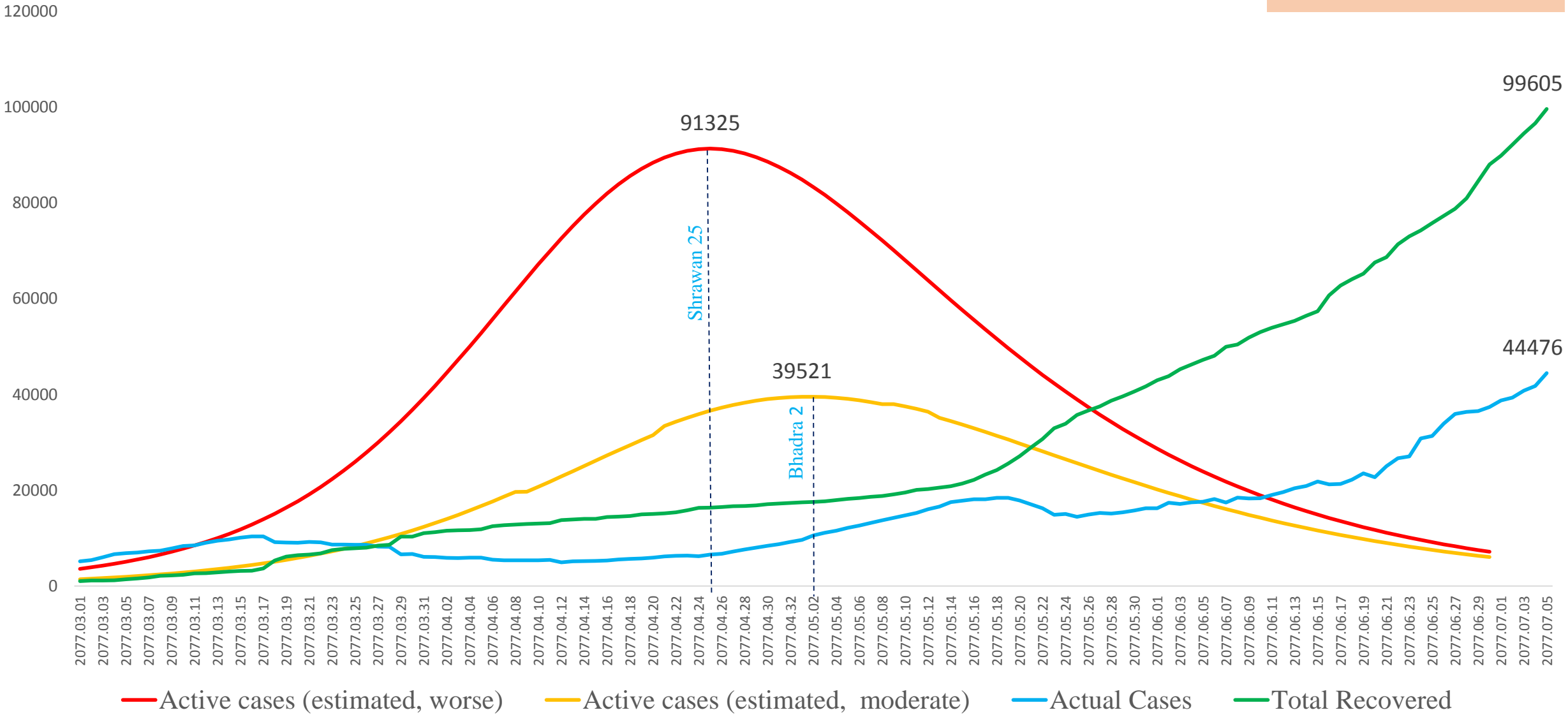
New Death and New Case ratio



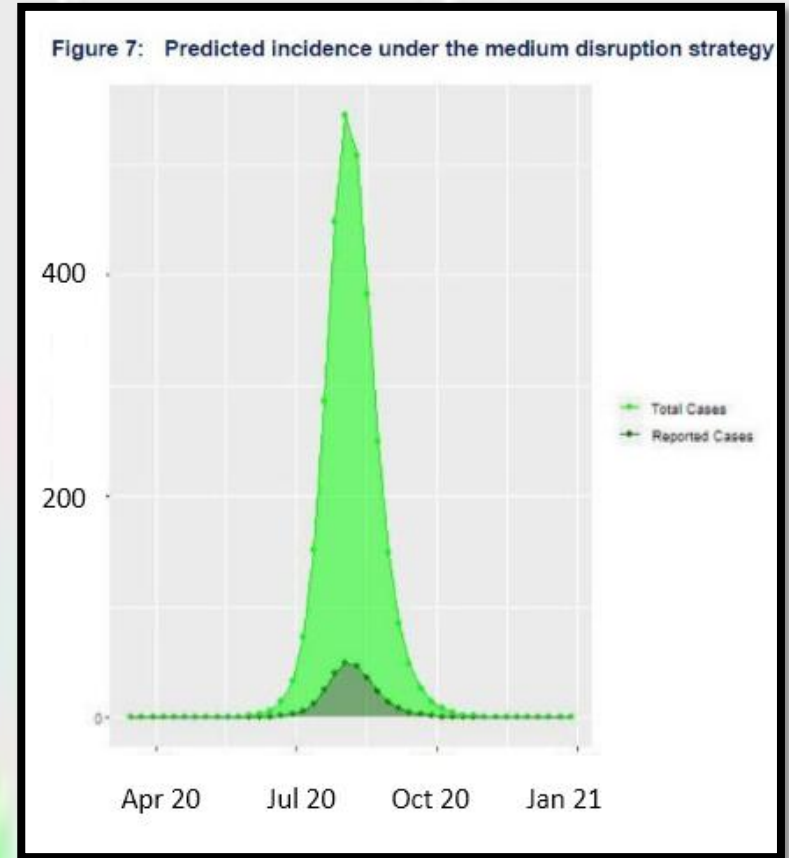
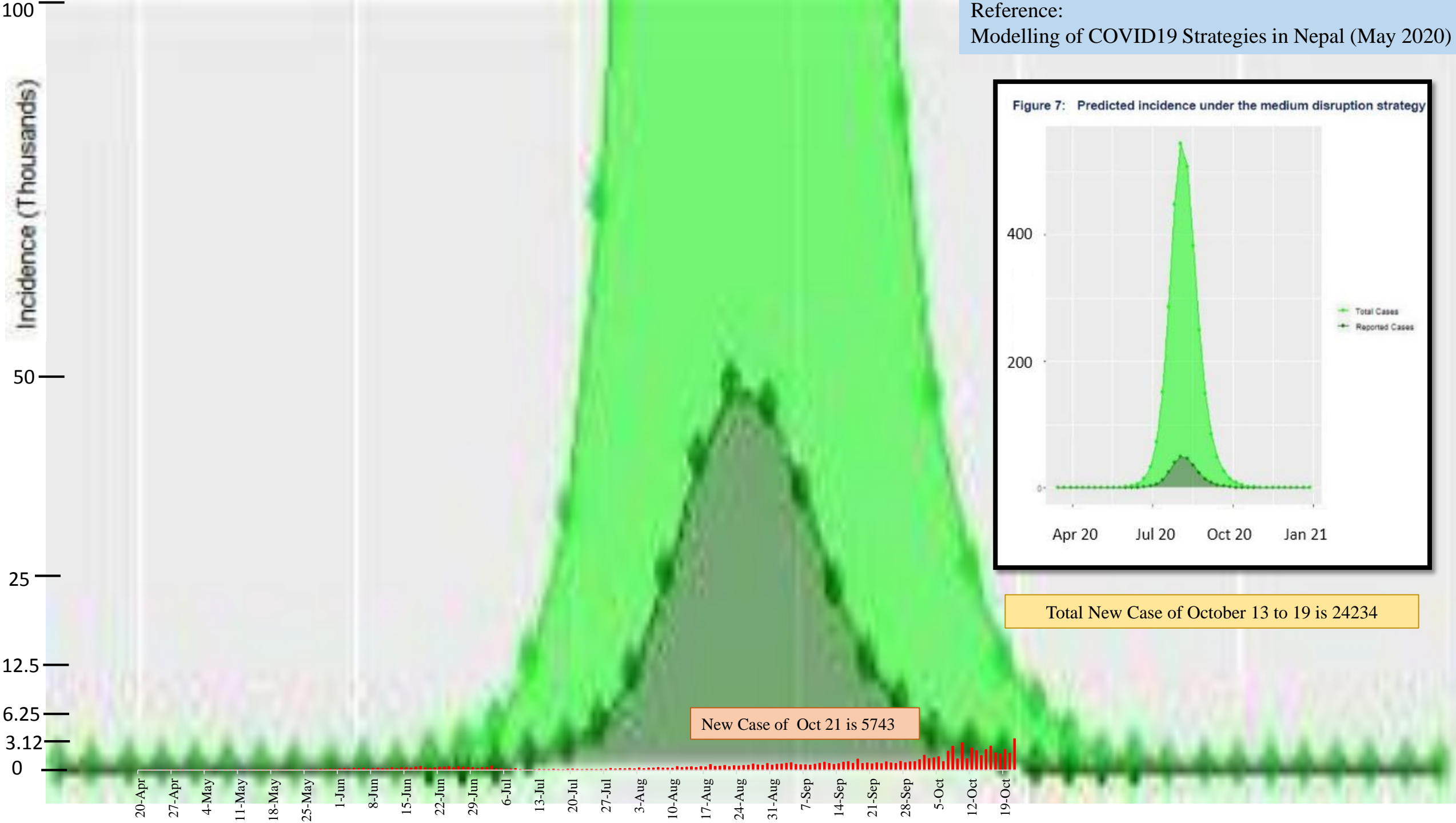


Active Cases: Estimated worse, moderate and actual and total Recovered

MoHP Estimation



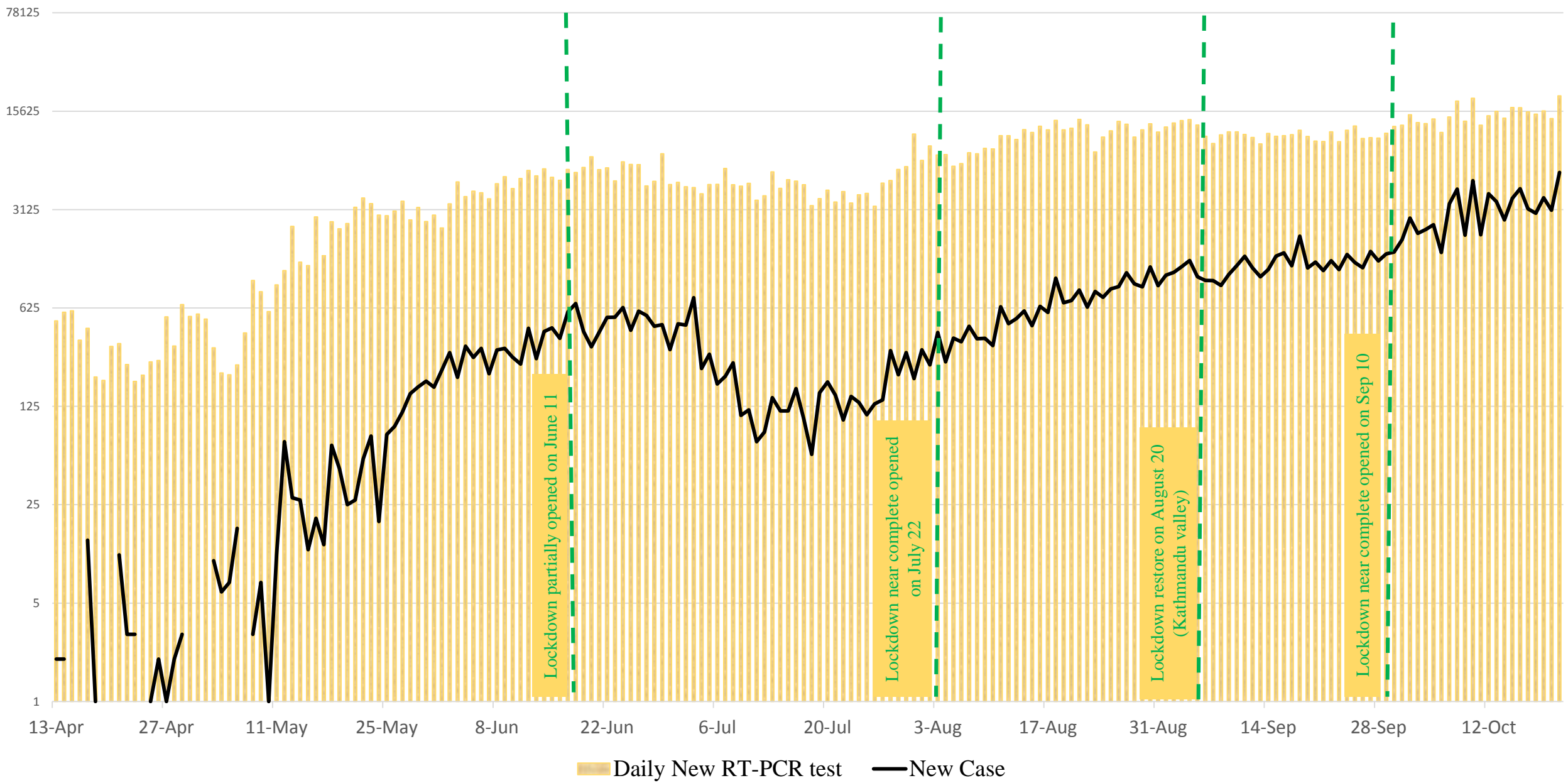
Reference:
Modelling of COVID19 Strategies in Nepal (May 2020)



Total New Case of October 13 to 19 is 24234



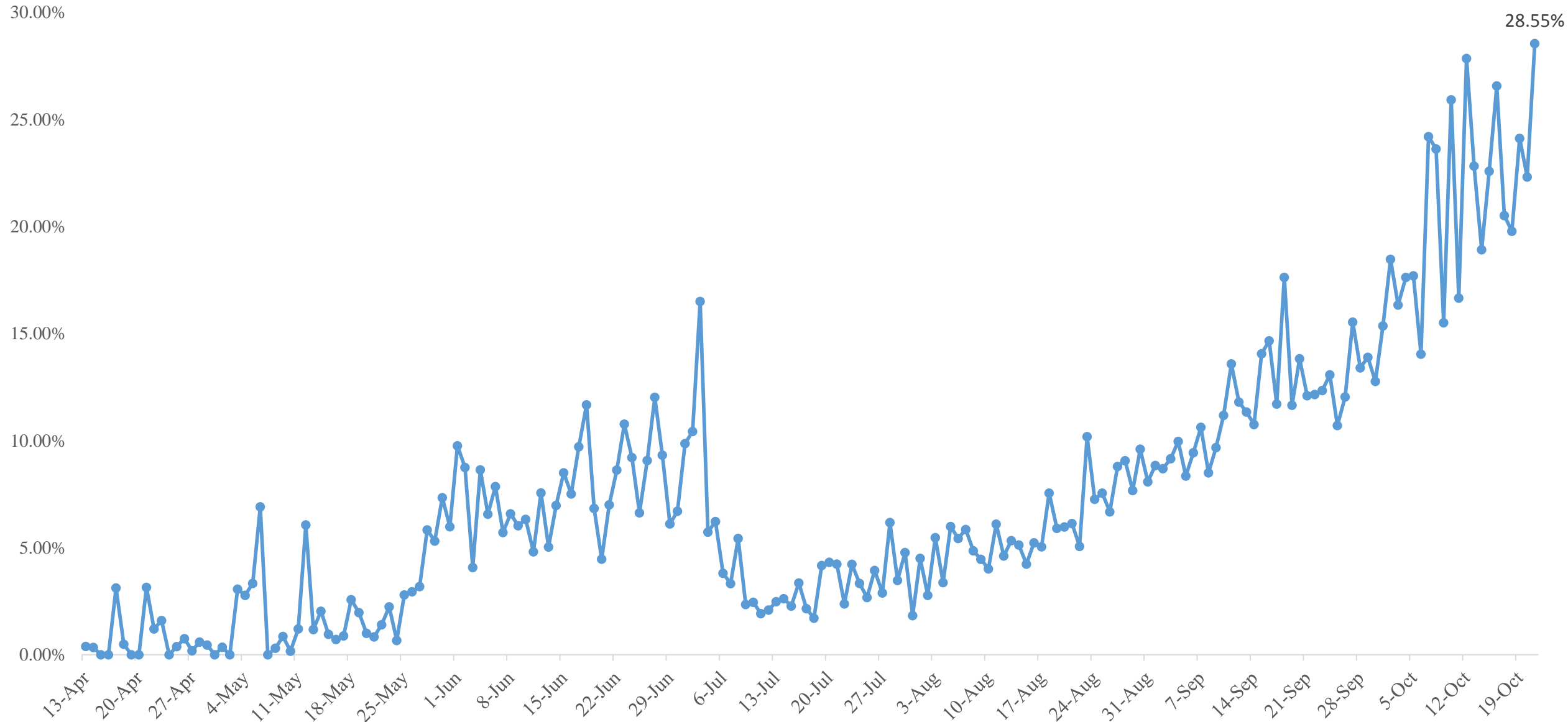
Daily New PCR test and new case detection





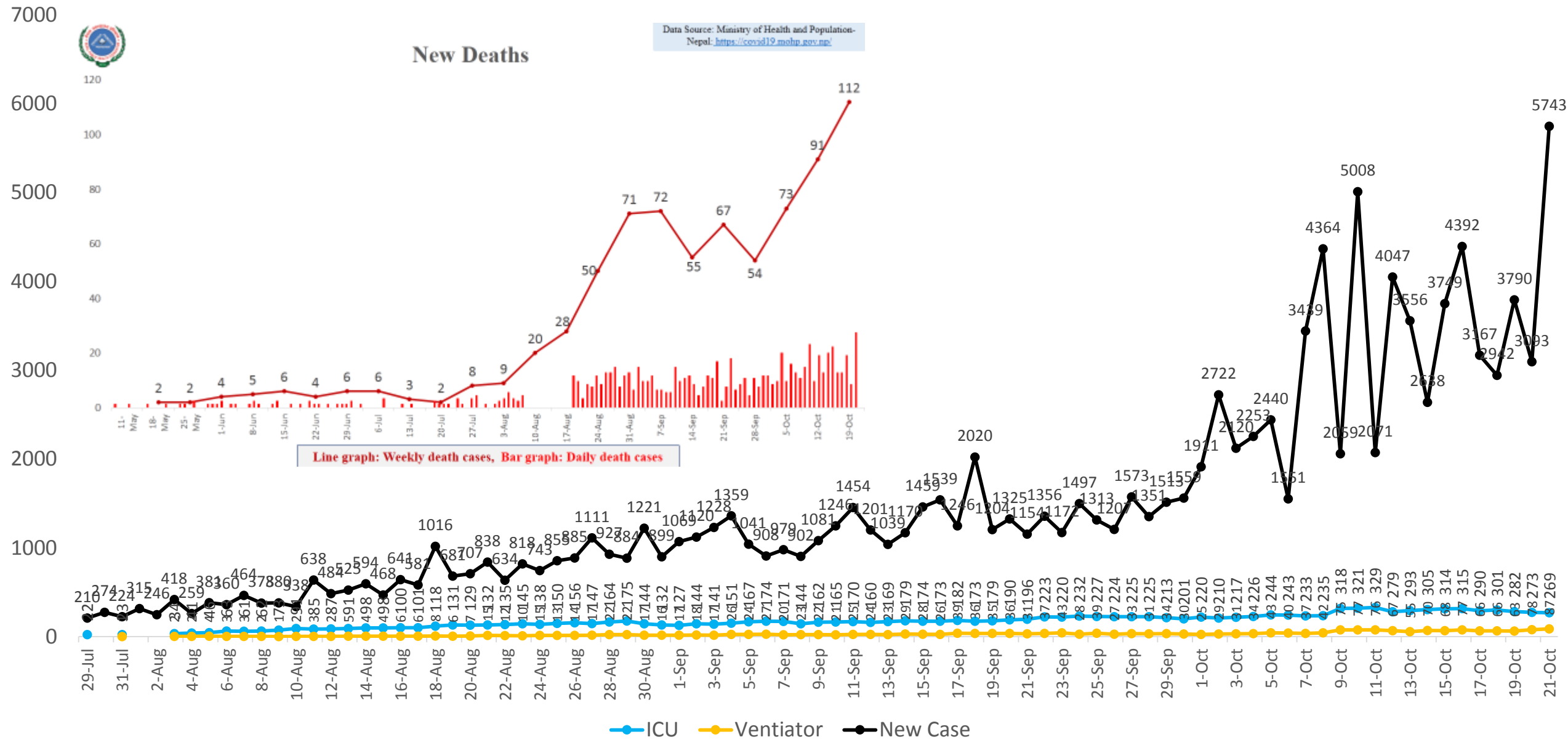
Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>

New Case and PCR ratio



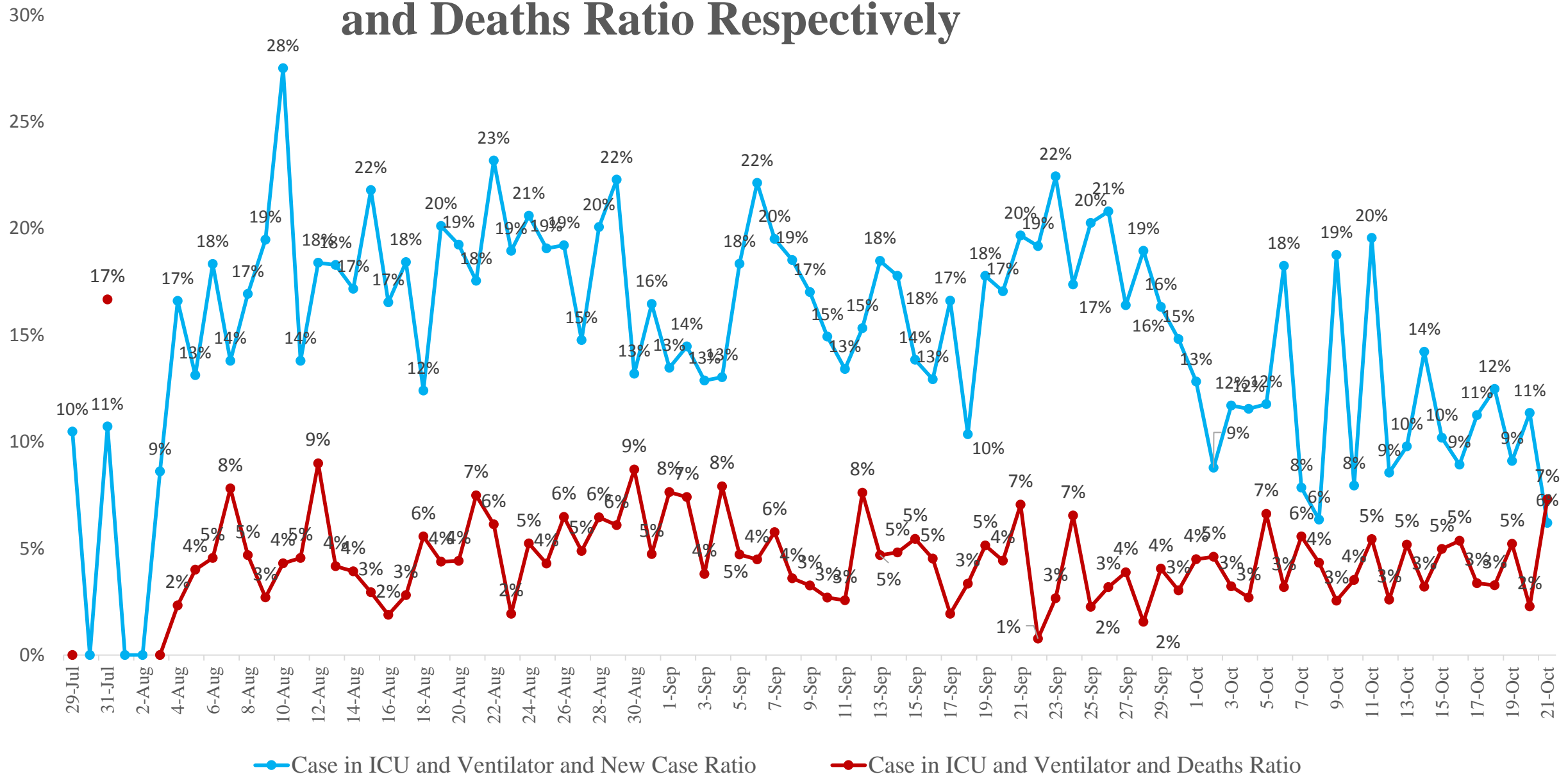


Cases in ICU, Ventilator and, New Cases and New Death Status





Total Case in ICU and Ventilator with New Case and Deaths Ratio Respectively



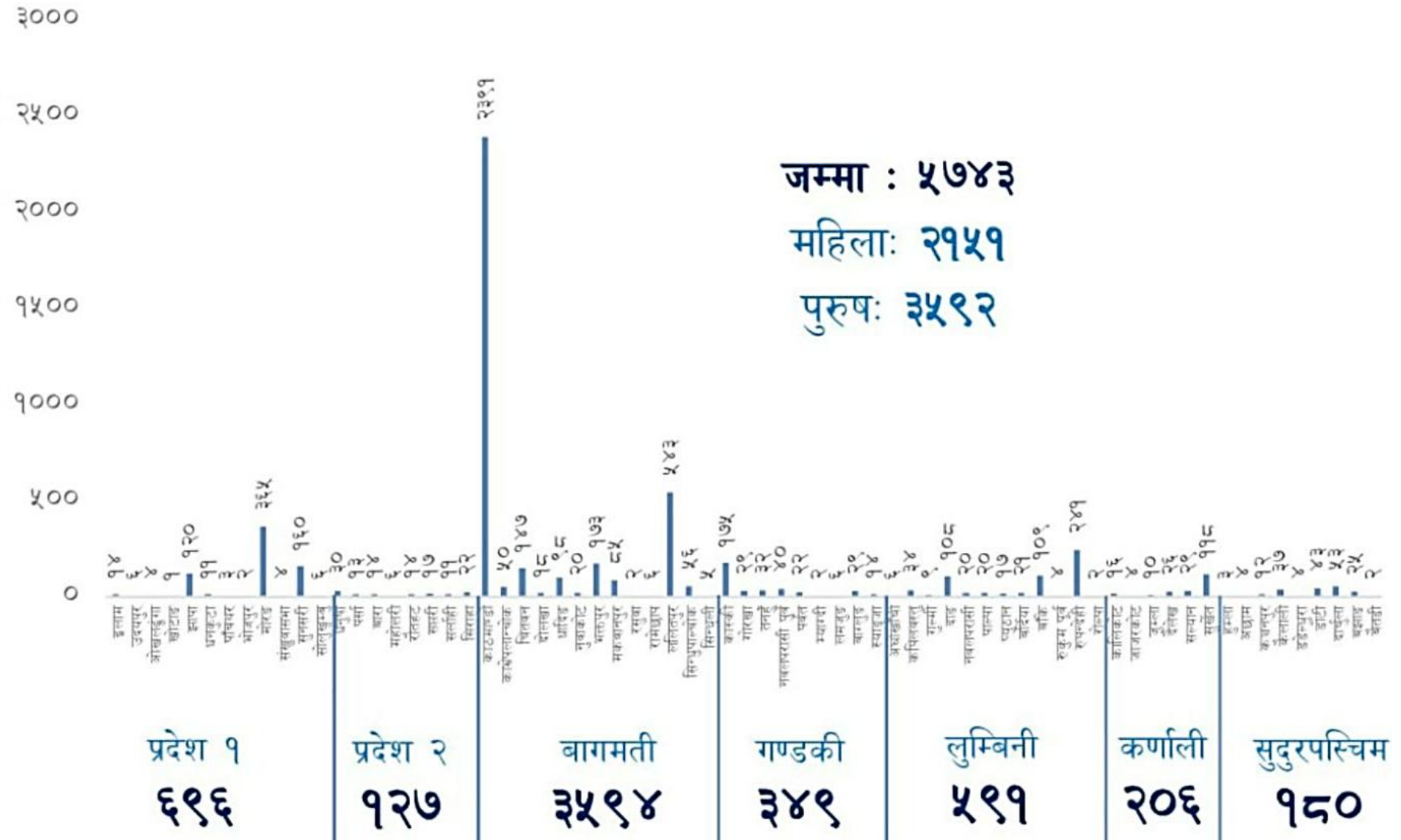
काठमाडौं उपत्यकामा कोभिड-१९ संक्रमितको अवस्था



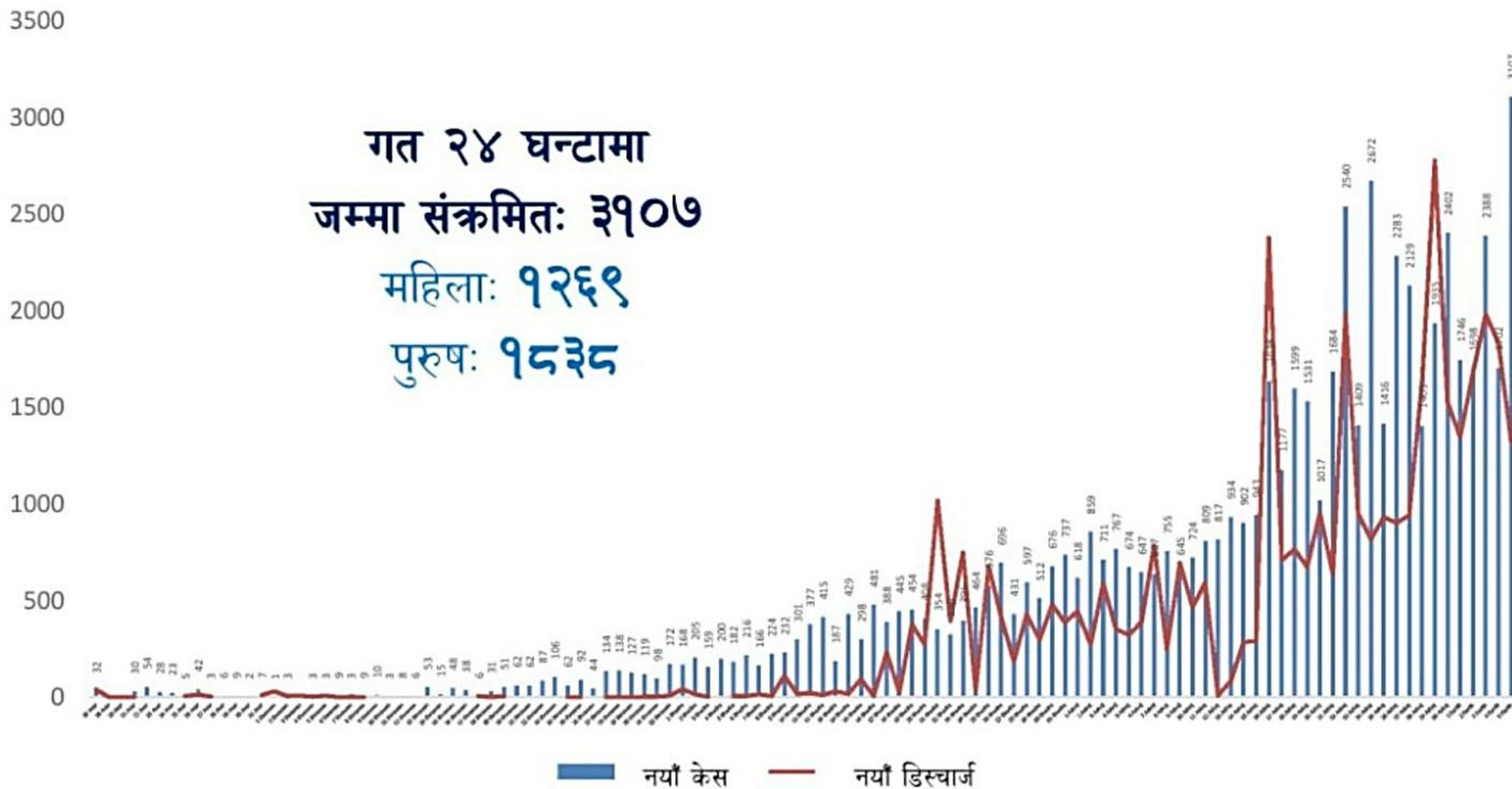
होम आइसोलेशन: काठमाडौं (१०५०१), भक्तपुर (१५६२), ललितपुर (२७१४)



गत २४ घन्टामा कोभिड-१९ का नयाँ संक्रमितहरुको विवरण

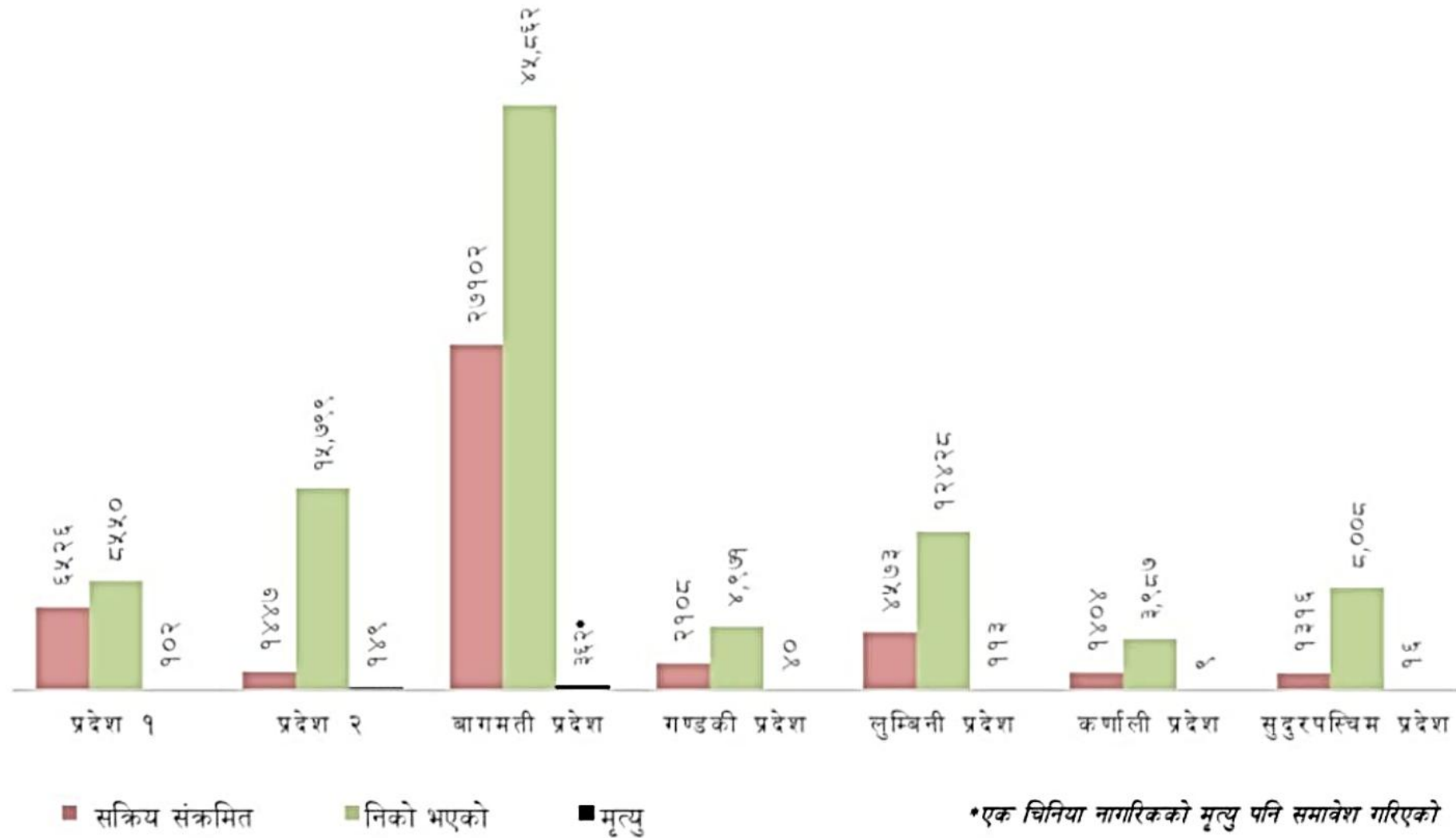


काठमाडौं उपत्यकामा कोभिड-१९ का संक्रमित र डिस्चार्ज हुनेहरुको विवरण





प्रदेश अनुसार कोभिड-१९ का सक्रिय संक्रमित, डिस्चार्ज र मृत्युको विवरण





10/20/2020

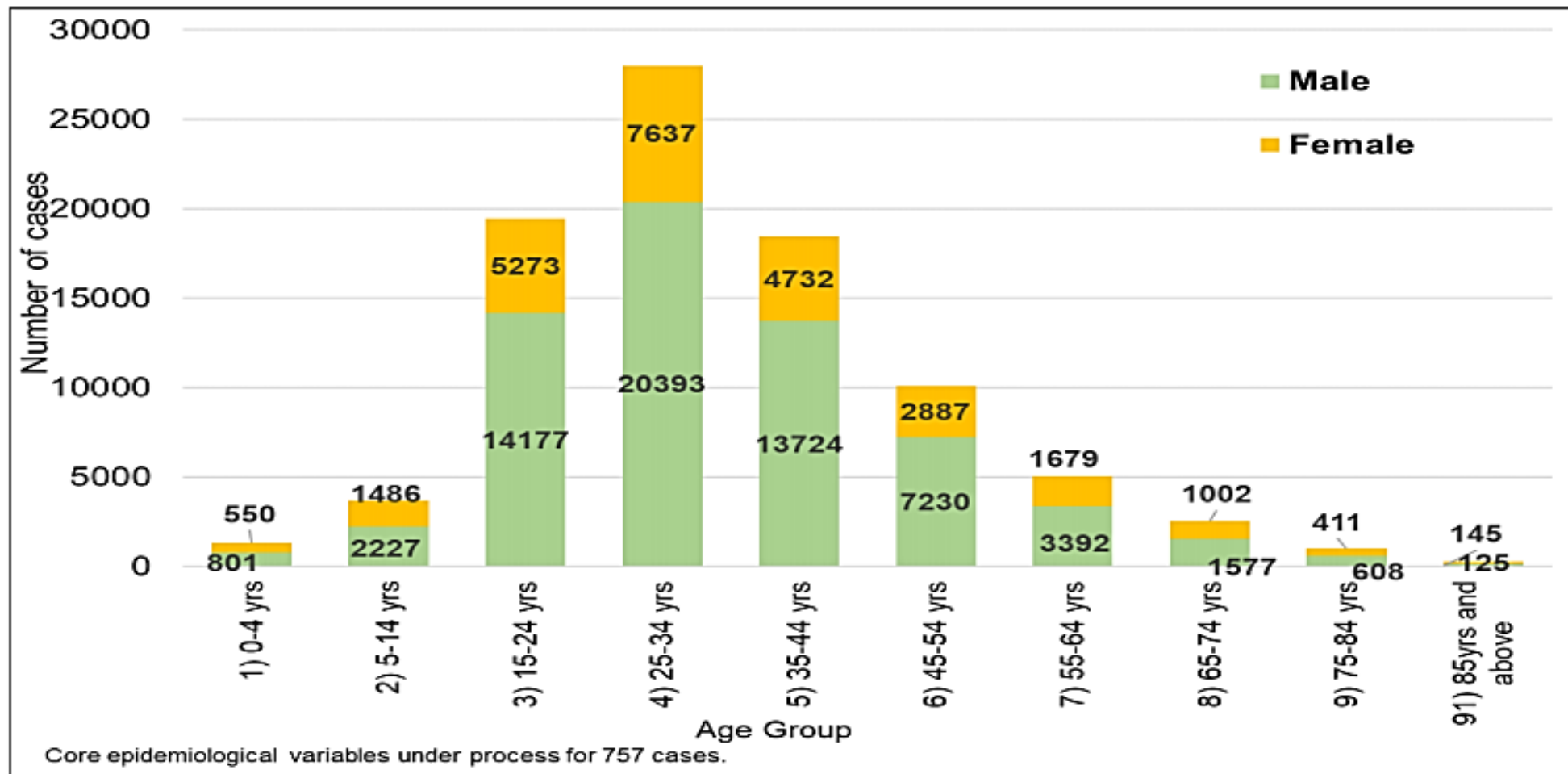
Situation Report - 2020-10-20

प्रदेश	नेपाल आएको	स्वाब लिइएको	स्वाब टेष्ट गरिएको	इसोलसन खाटहरु	आईसोलेसनमा	कारेन्टाईन खाटहरु	कारेन्टाईनमा बसेका	संक्रमित	निको भएको	मृत्यु
प्रदेश नं .१	०	२२०	२१	२,३१८	५३६	८,७३९	५०६	१४,५६४	१३,०६३	९१
प्रदेश नं .२	३०	२	१७	२,६३५	१,४४४	४,७७५	११२	१७,२३८	१५,१६३	१४३
बाग्मती	०	८९	०	४,०४३	२,९७८	६,६३५	४०१	६९,६१५	४०,०७३	३२५
गण्डकी	०	२९०	१७३	१,५०६	१,२१६	७,०७२	२,५२६	७,३६९	५,१४३	३३
प्रदेश नं .५	०	०	०	३,०५५	१,७०९	१०,६५१	१,०२७	१६,२९४	११,७८२	१०७
कर्णाली	०	२०१	०	२,८८५	६८७	१९,५७६	५२९	५,३२५	४,३९०	७
सुदुरपश्चिम	०	१०६	०	३,८६५	४०३	१५,३११	६५३	८,७२४	६,९९५	२२



Figure 4: Distribution of COVID-19 cases by age and sex (N = 90056) (Data updated on 07 October 2020

T07:00:00)



**Table 2: Age Specific Case Fatality Ratio and Co-morbidity of Deaths* in COVID-19 confirmed cases****(N = 90813)** (Data updated on 07 October 2020 T07:00:00)

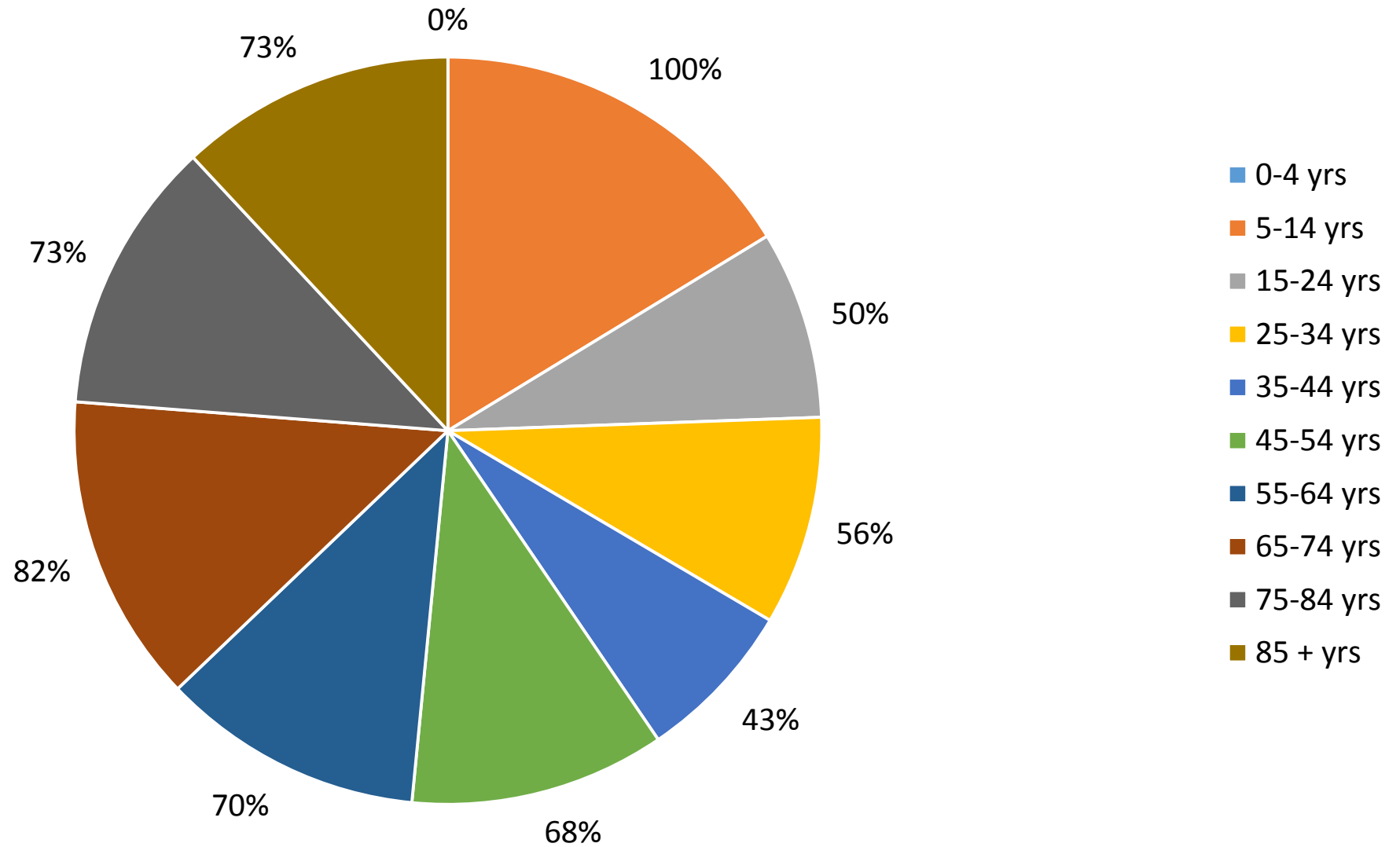
Age Group	Total confirmed cases	Death (male)	Death (female)	Deaths with any known comorbid condition	Age specific case fatality ratio (%)
0-4 yrs	1351	2	2	1	0.3
5-14 yrs	3713	2	1	3	0.08
15-24 yrs	19450	8	8	8	0.08
25-34 yrs	28030	23	13	20	0.13
35-44 yrs	18456	48	17	28	0.35
45-54 yrs	10117	59	25	57	0.83
55-64 yrs	5071	95	33	89	2.52
65-74 yrs	2579	87	36	101	4.77
75-84 yrs	1019	50	23	53	7.16
85+ yrs	270	20	10	22	11.11
Unknown	757	0	0	0	0
National	90813	394	168	382	0.62

$$\text{Case Fatality ratio (CFR, in\%)} = \frac{\text{Number of deaths from disease}}{\text{Number of confirmed cases of disease}} \times 100$$

COVID-19 positive lab result is temporally associated with death; causal association under investigation.



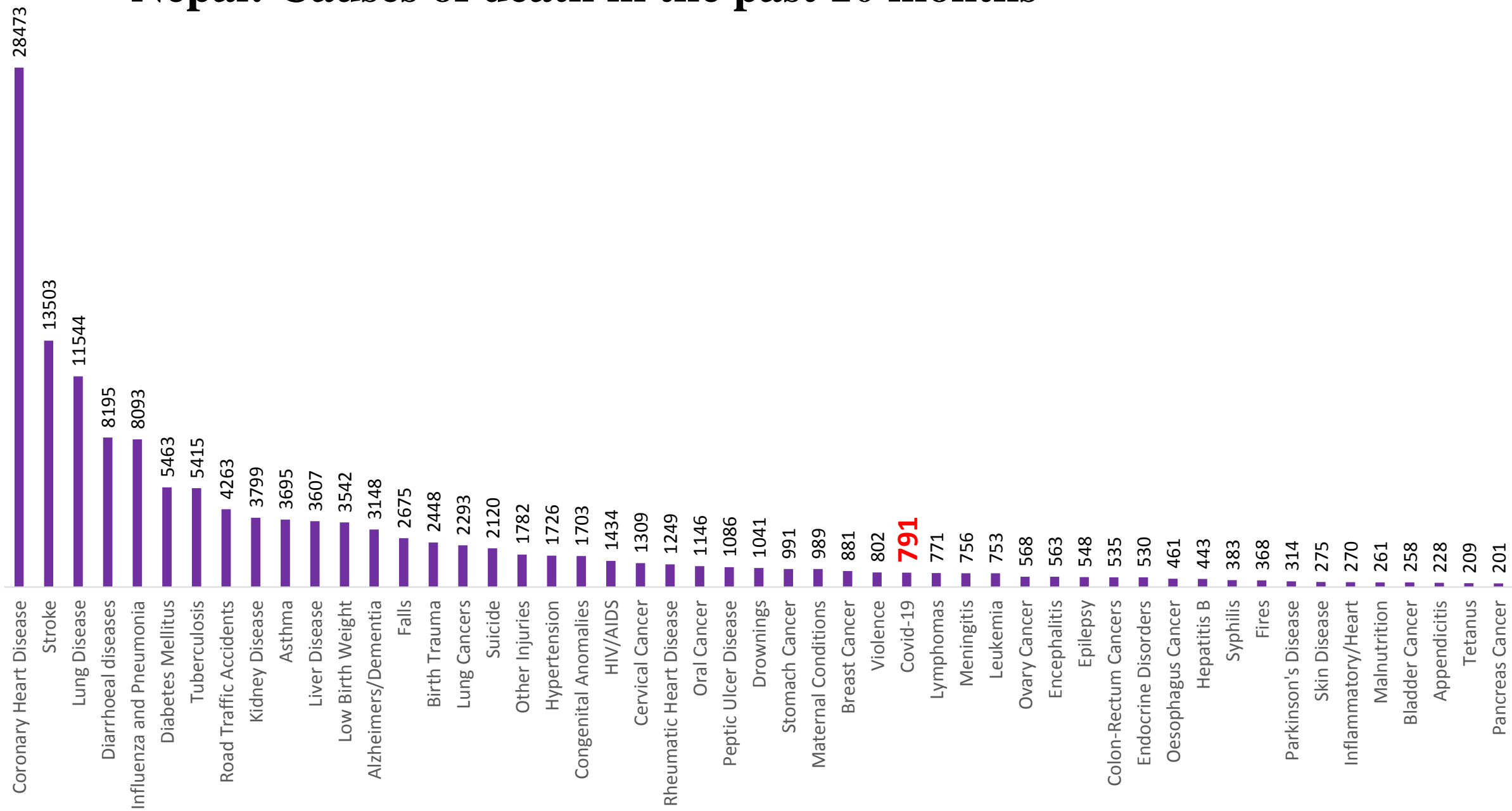
Deaths with any known comorbid condition



Total=68%



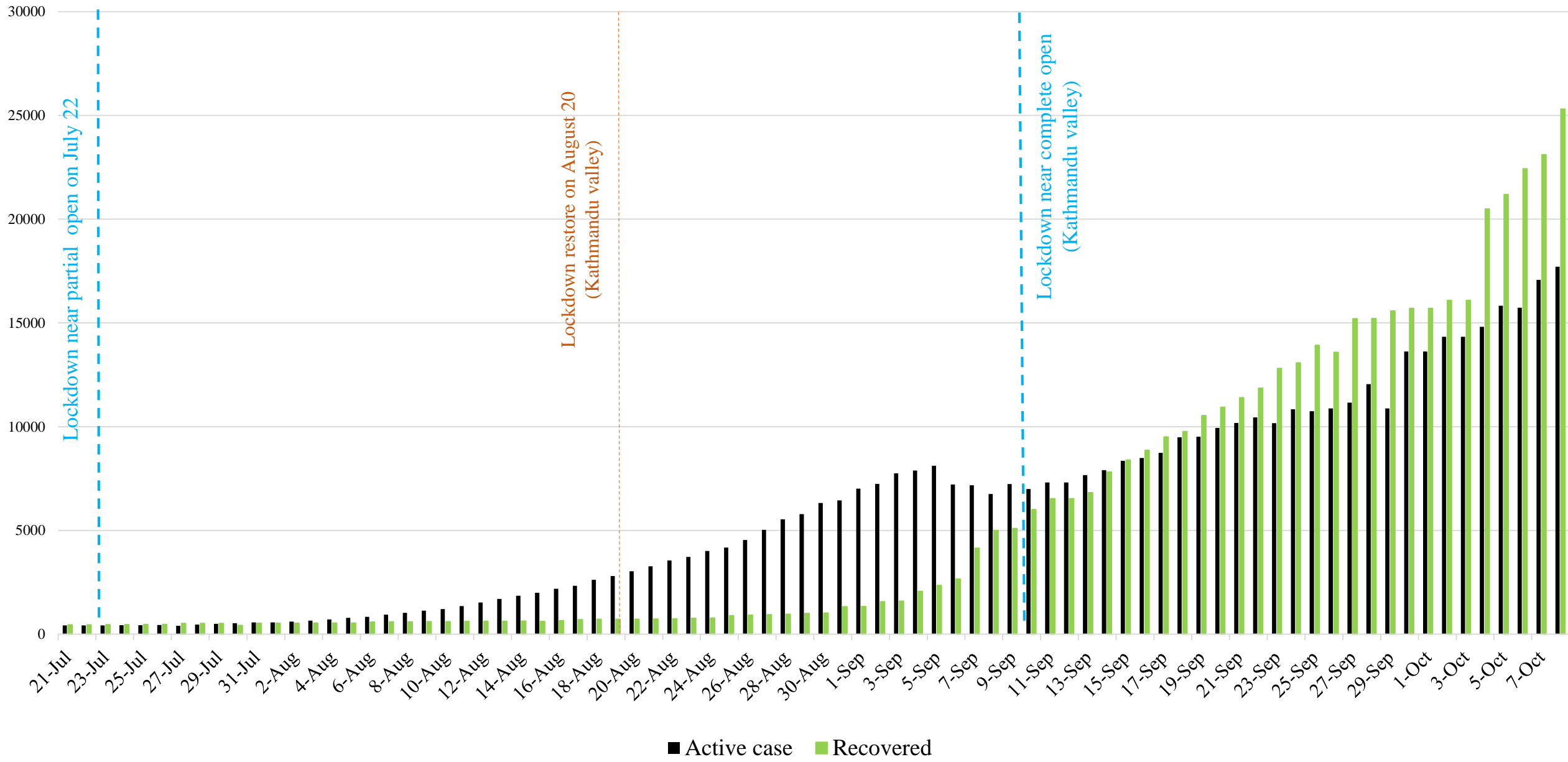
Nepal: Causes of death in the past 10 months



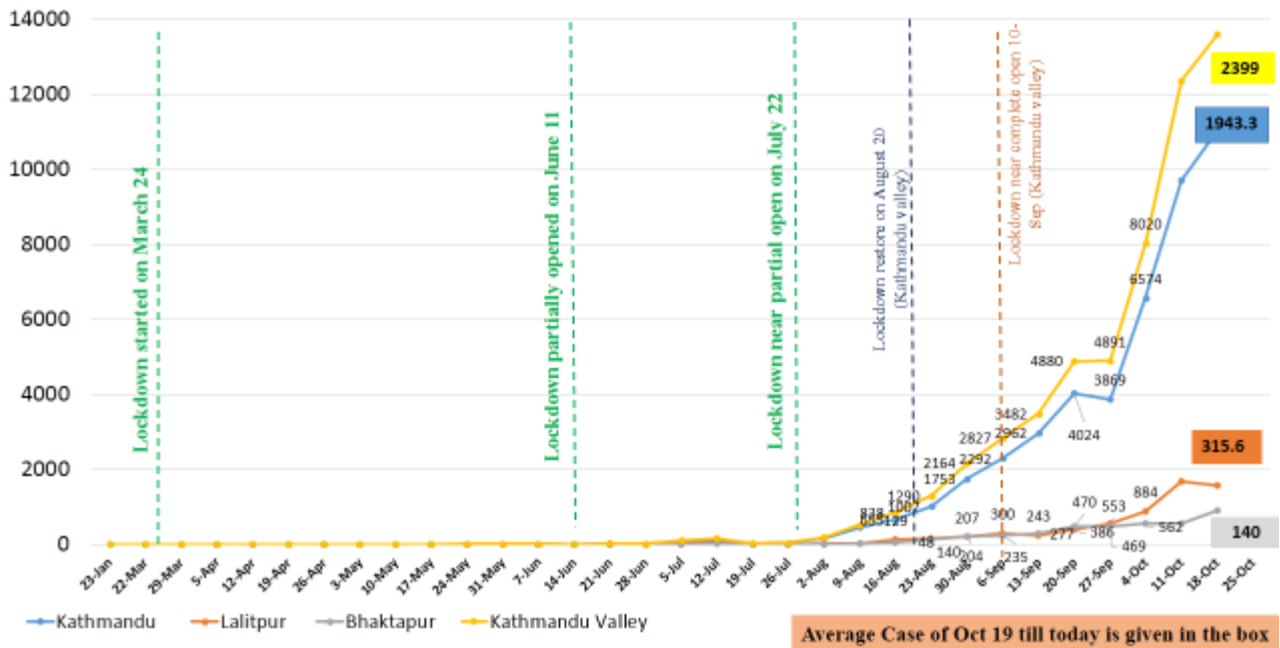


BAGMATI PROVINCE

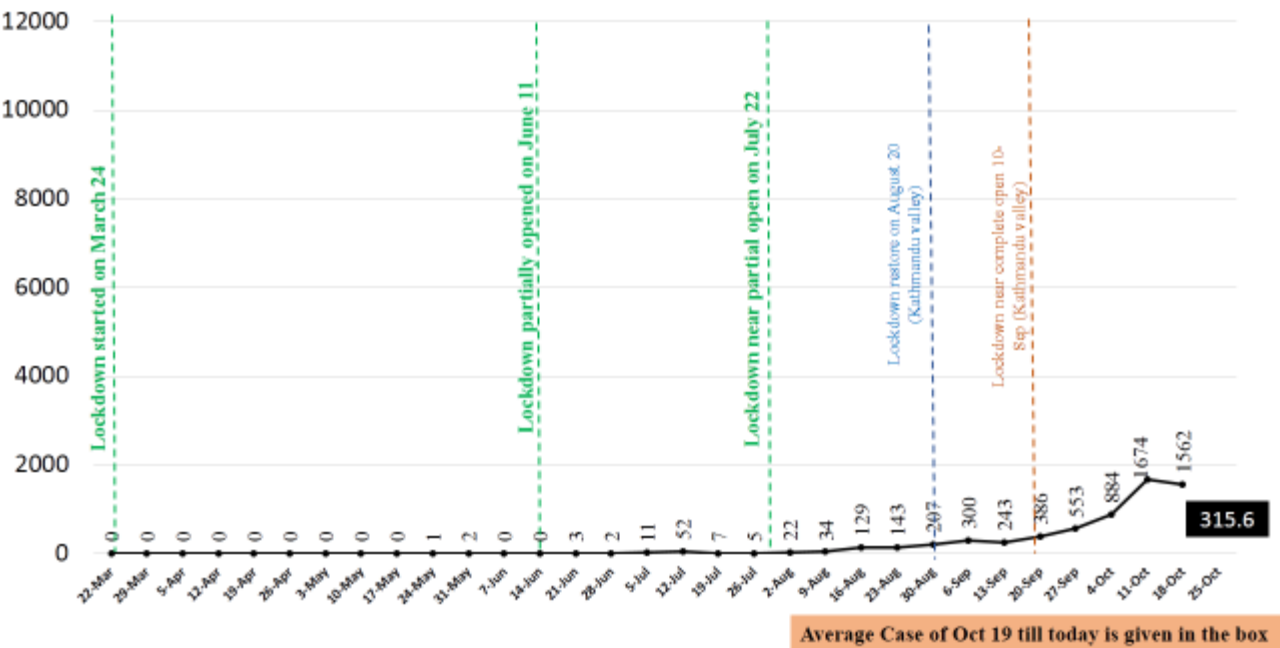
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>



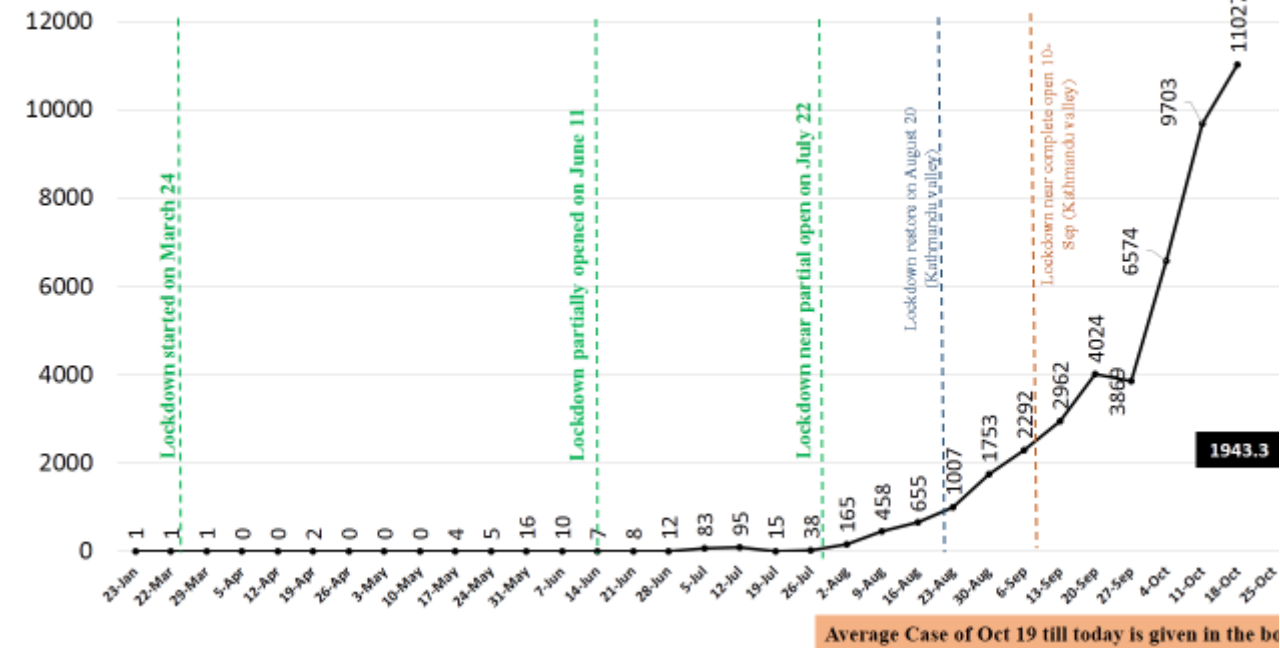
Weekly Hotspot- Kathmandu Valley



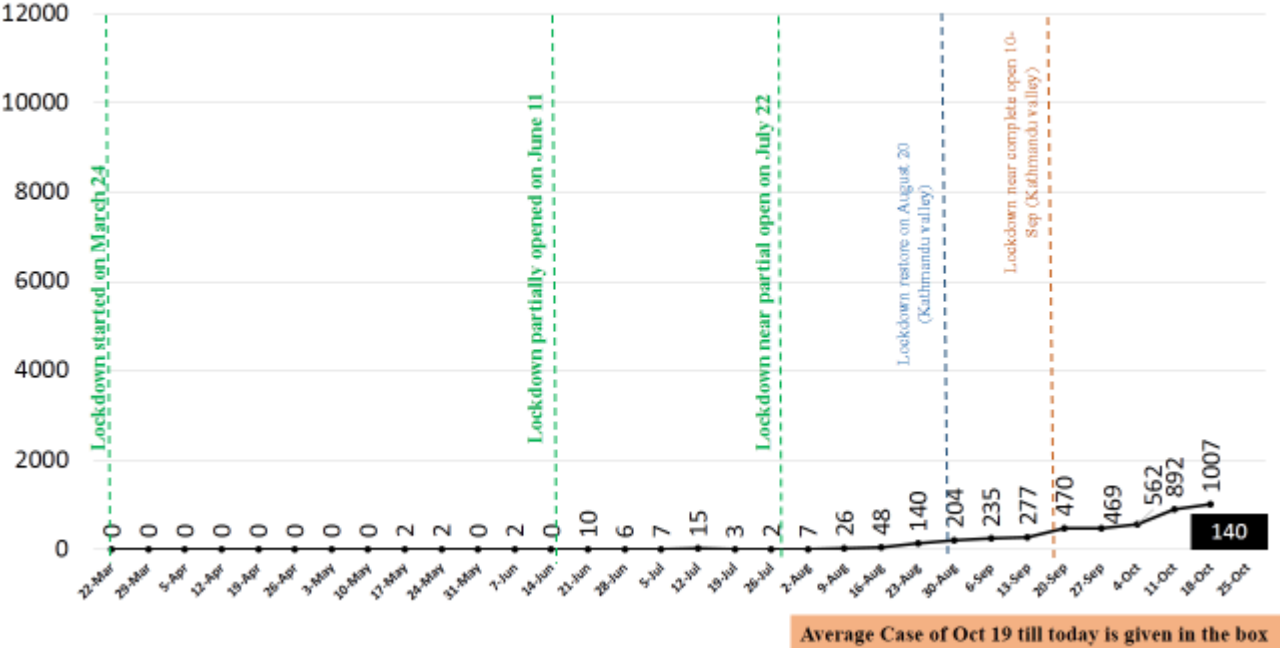
Weekly Hotspot- Lalitpur



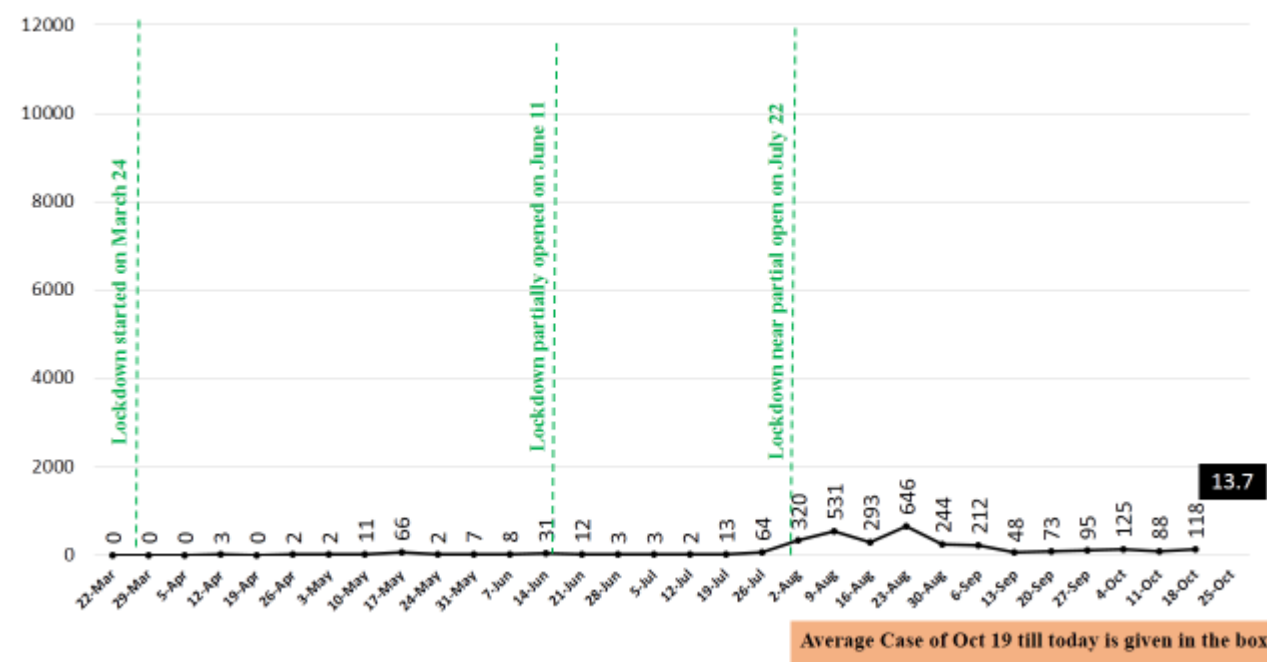
Weekly Hotspot- Kathmandu



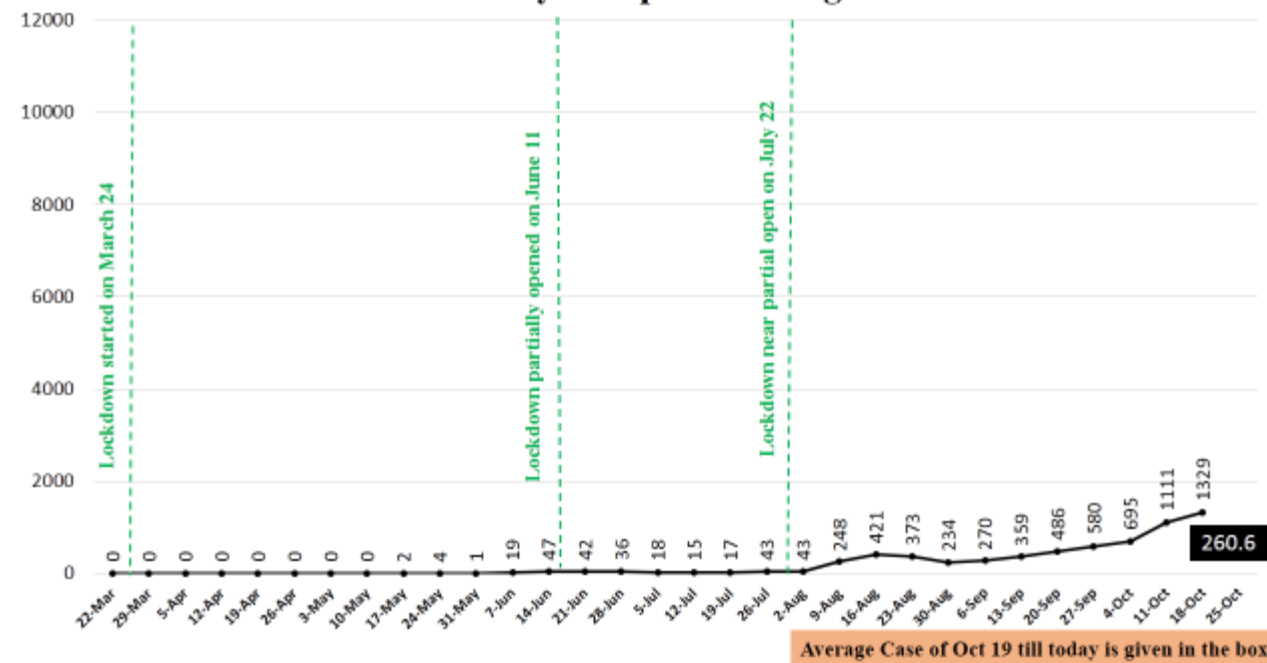
Weekly Hotspot- Bhaktapur



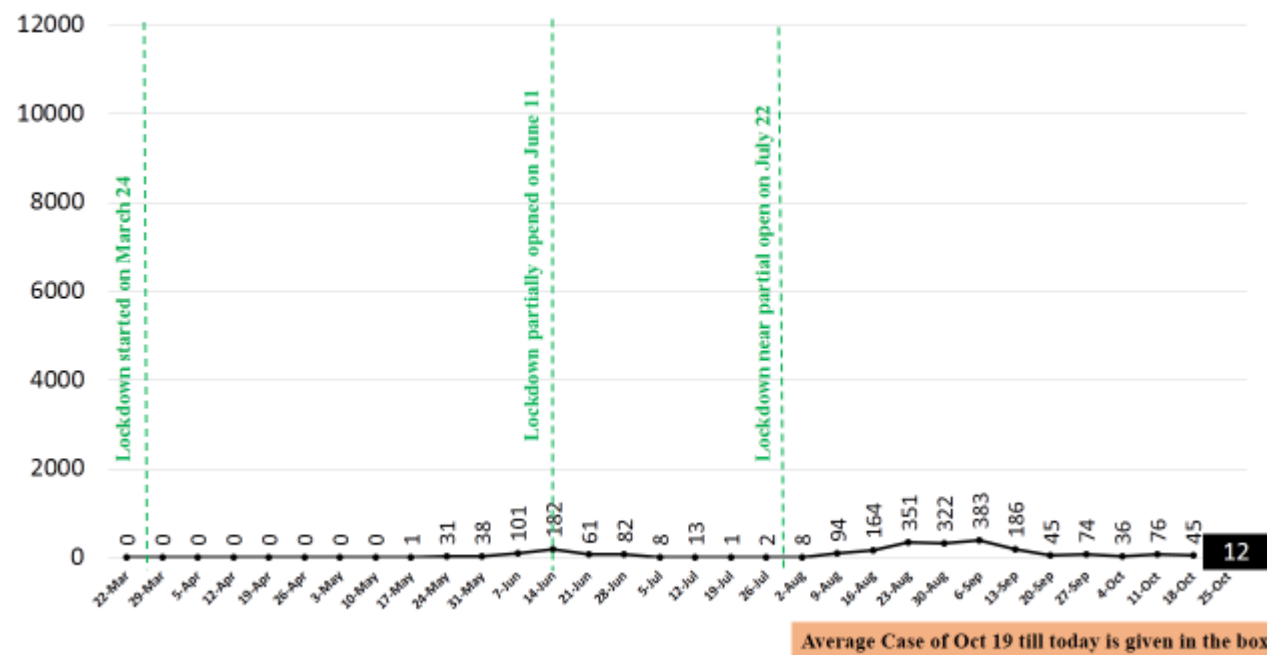
Weekly Hotspot-Parsa



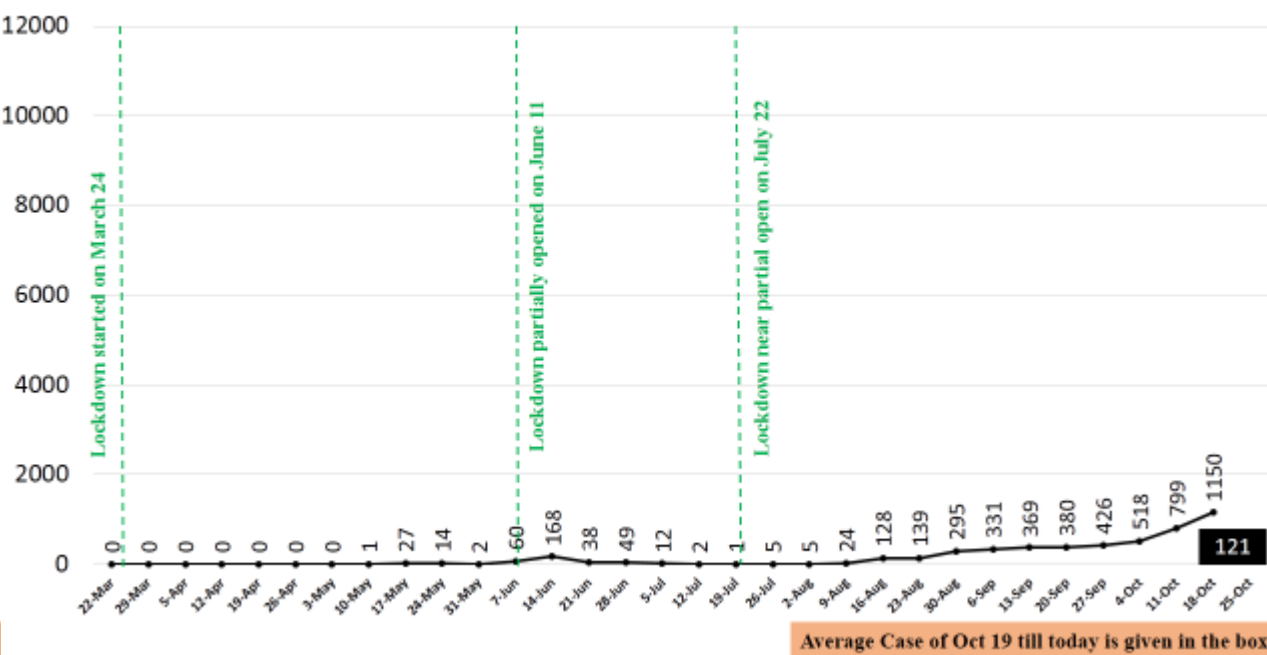
Weekly Hotspot- Morang



Weekly Hotspot- Sarlahi

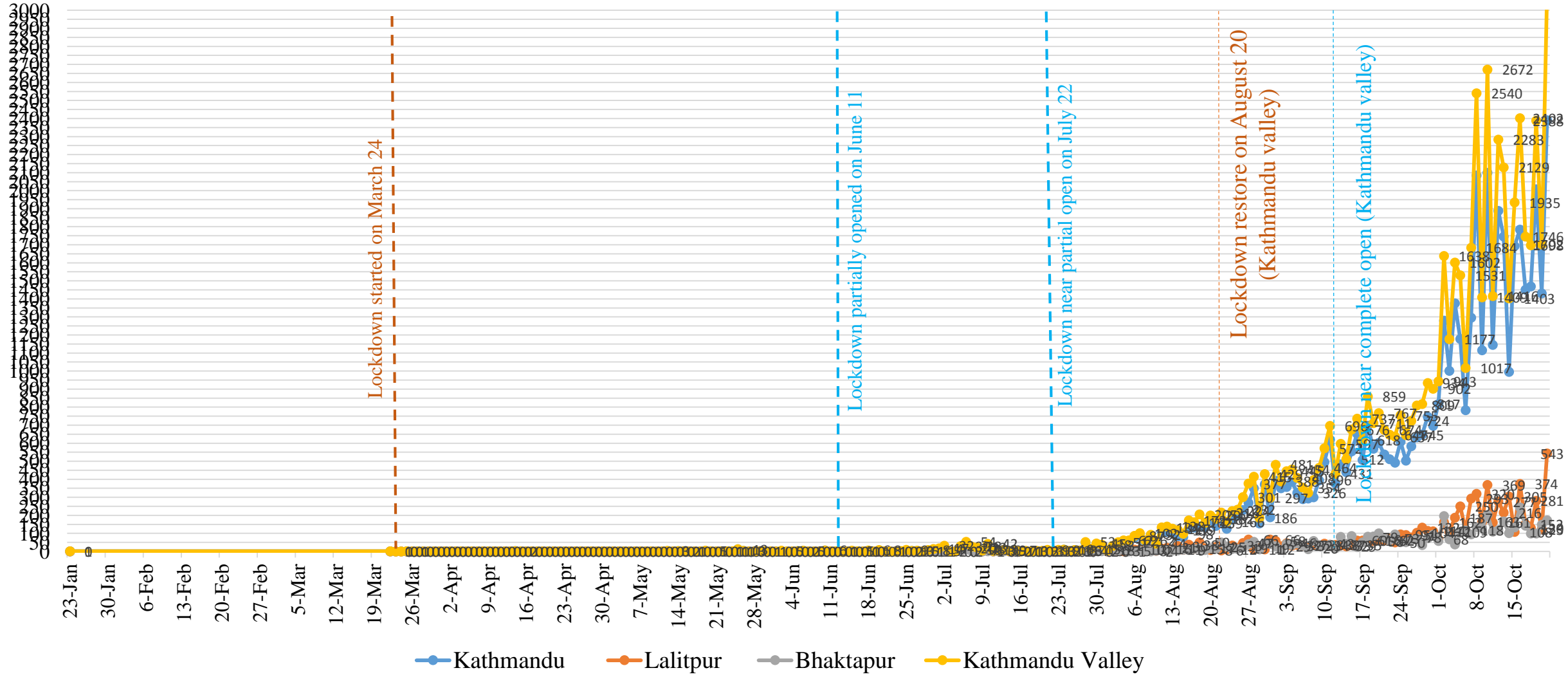


Weekly Hotspot- Rupandehi





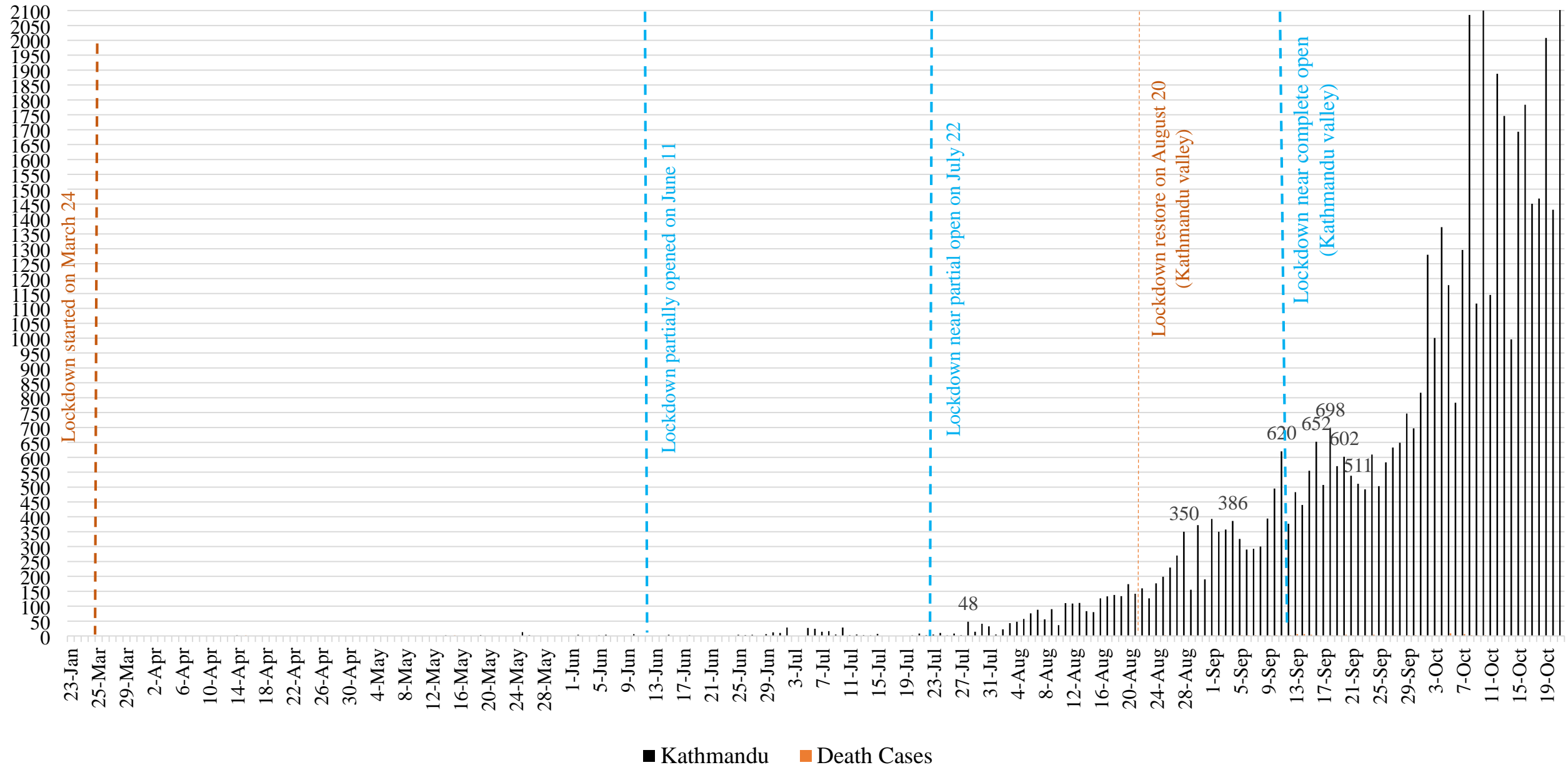
DAILY KATHMANDU, BHAKTAPUR, LALITPUR AND KATHMANDU VALLEY





KATHMANDU

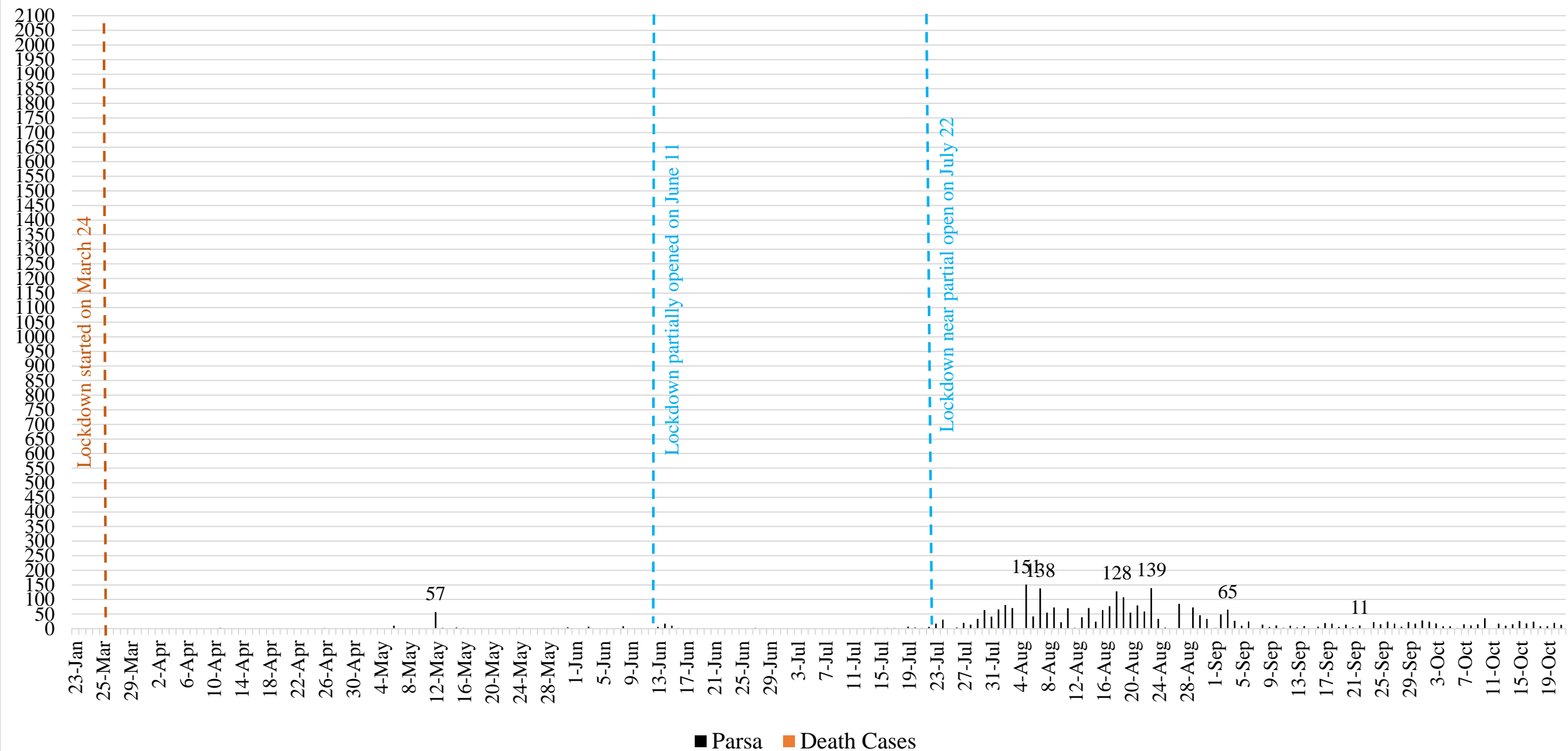
Data Source: Ministry of Health and Population-Nepal: <https://covid19.mohp.gov.np/>





PARSA

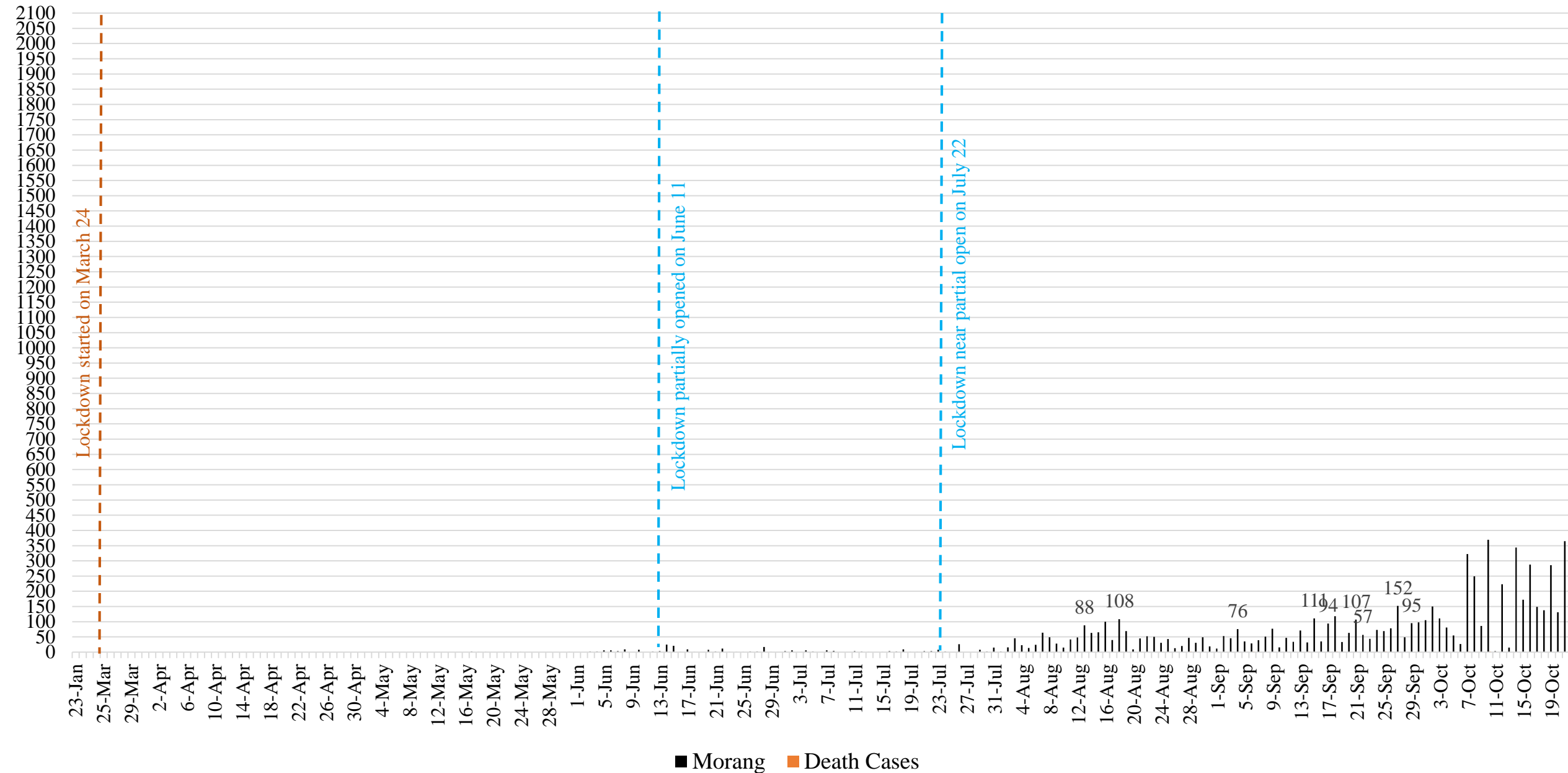
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohip.gov.np/>





MORANG

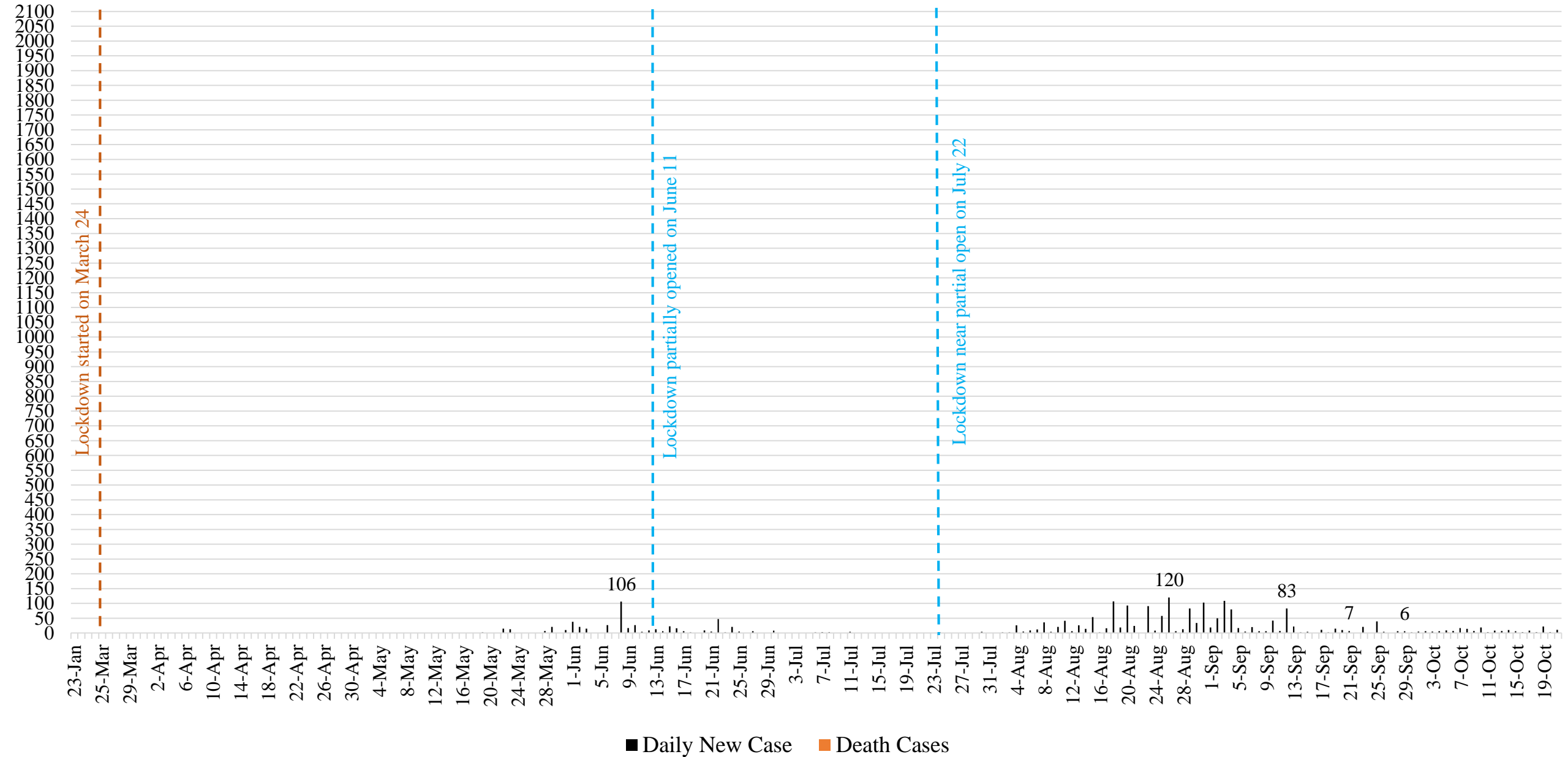
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>





SARLAHI

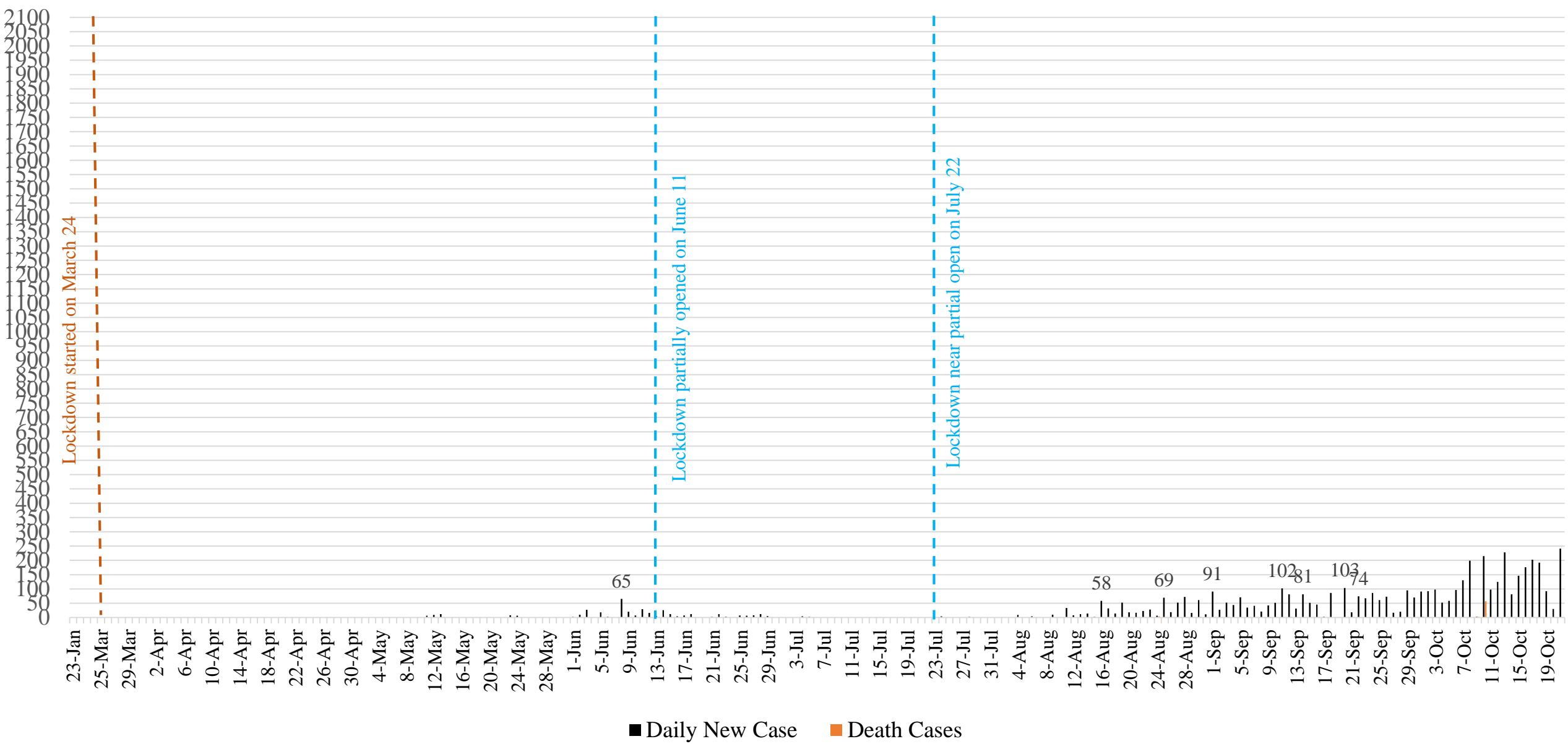
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>





RUPANDEHI

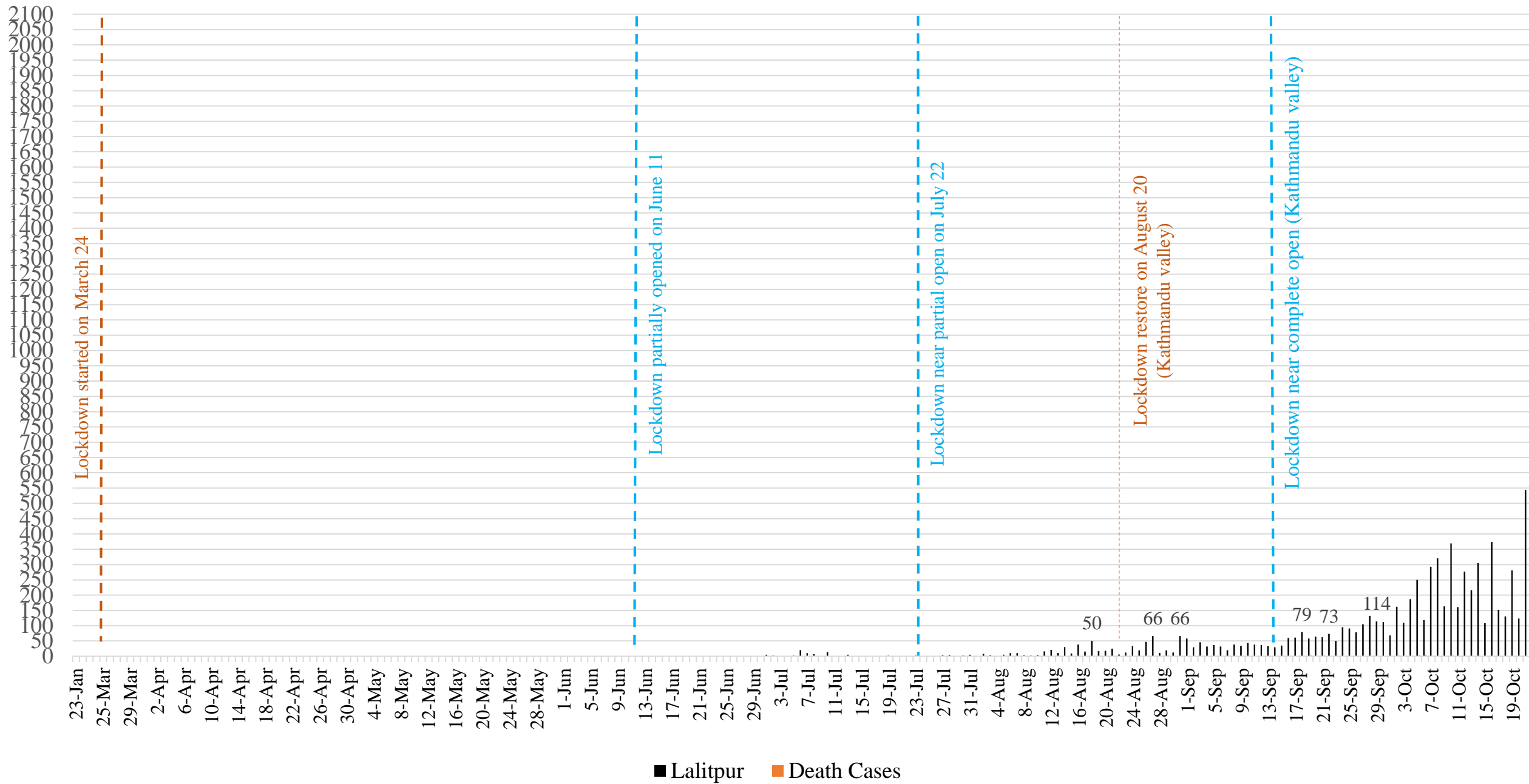
Data Source: Ministry of Health and Population-Nepal: <https://covid19.mohp.gov.np/>





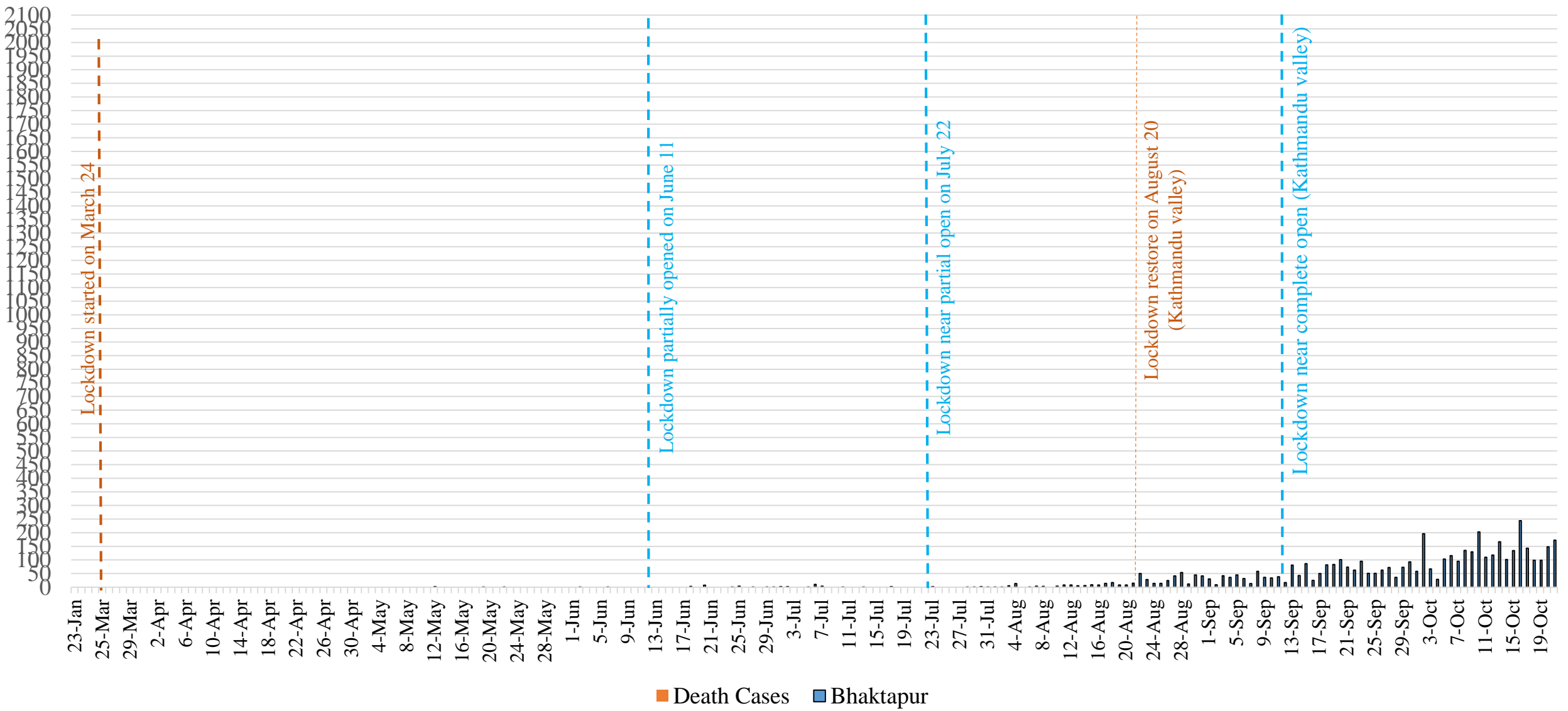
LALITPUR

Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>



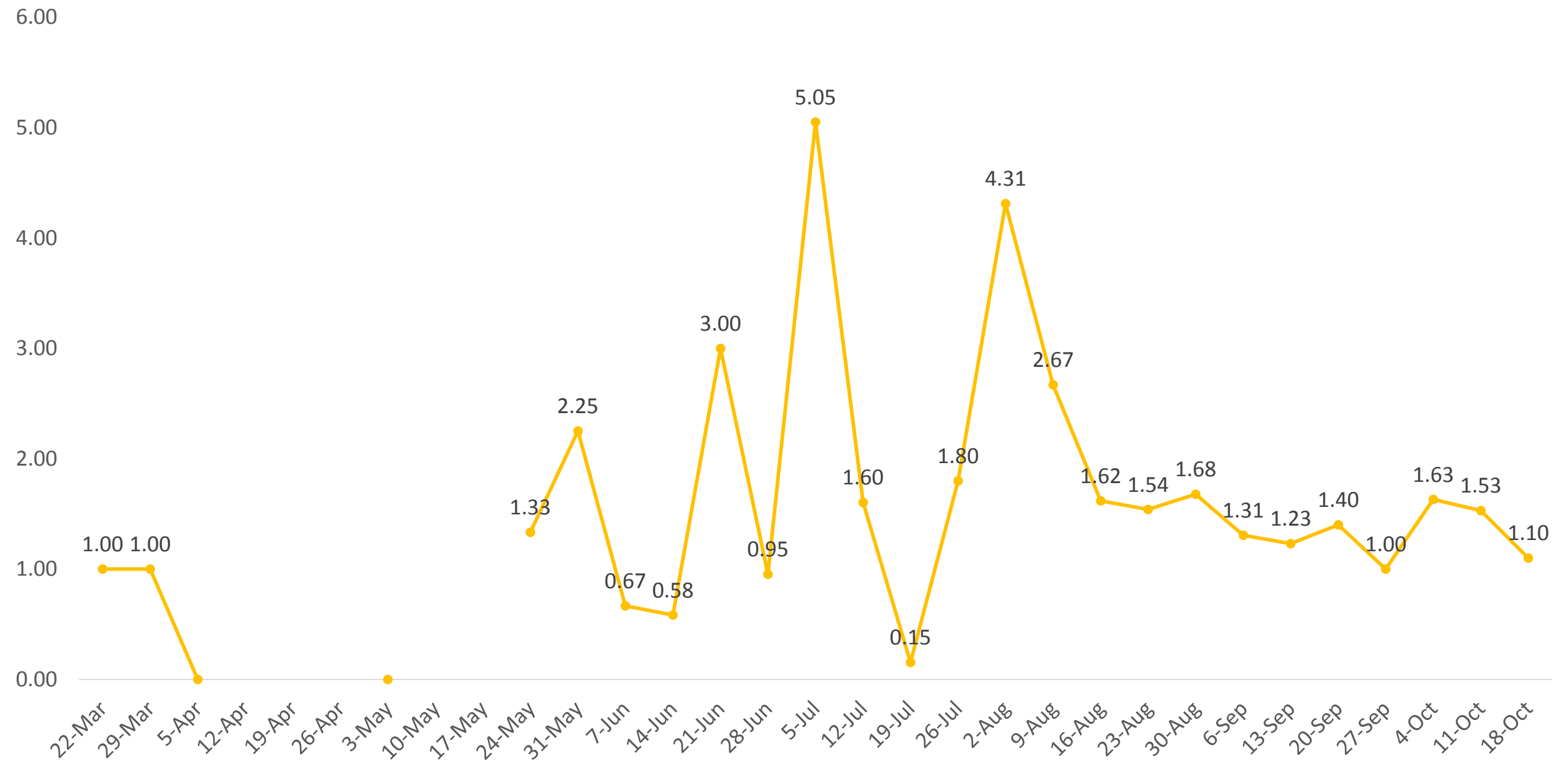


BHAKTAPUR





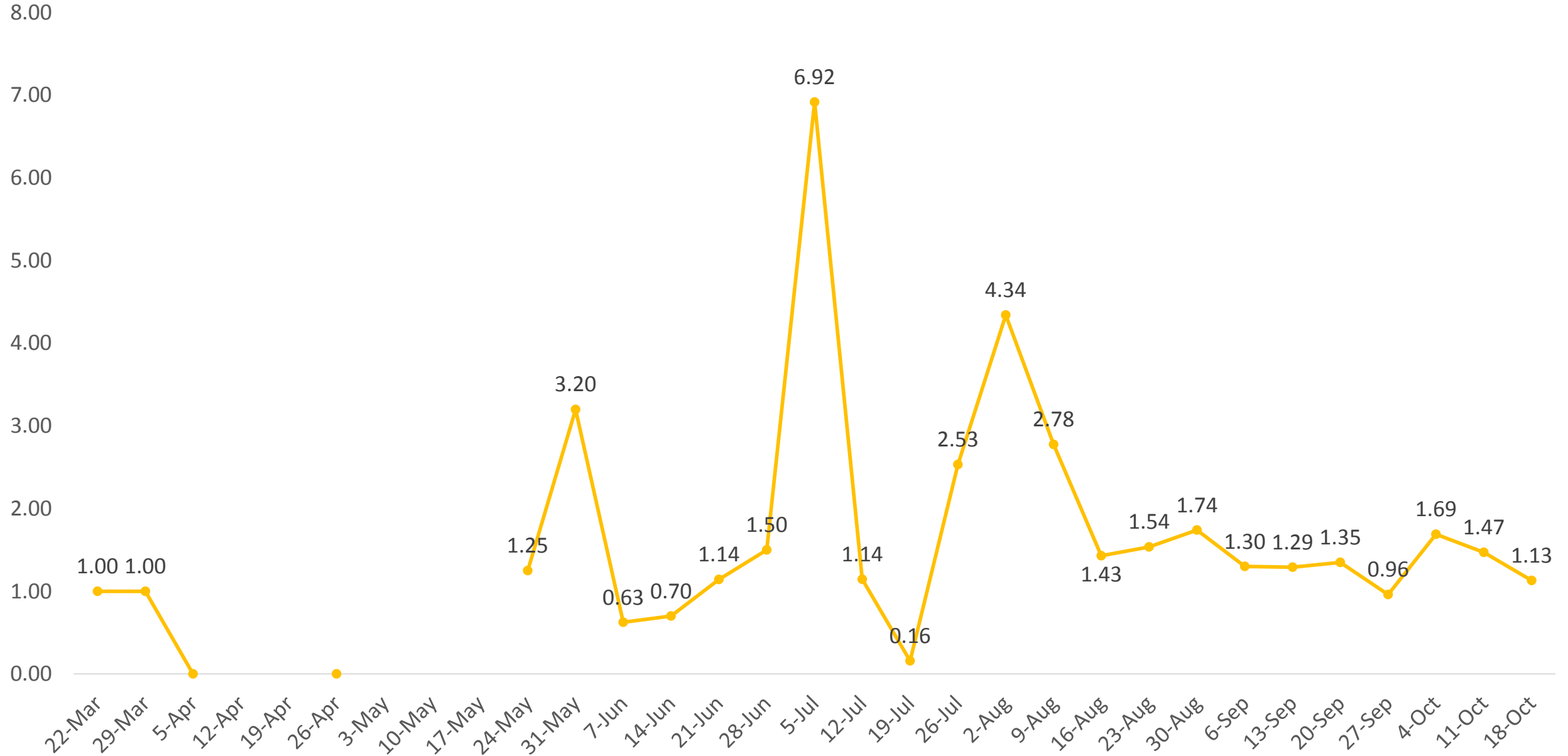
Reproduction Number of Ktm Valley





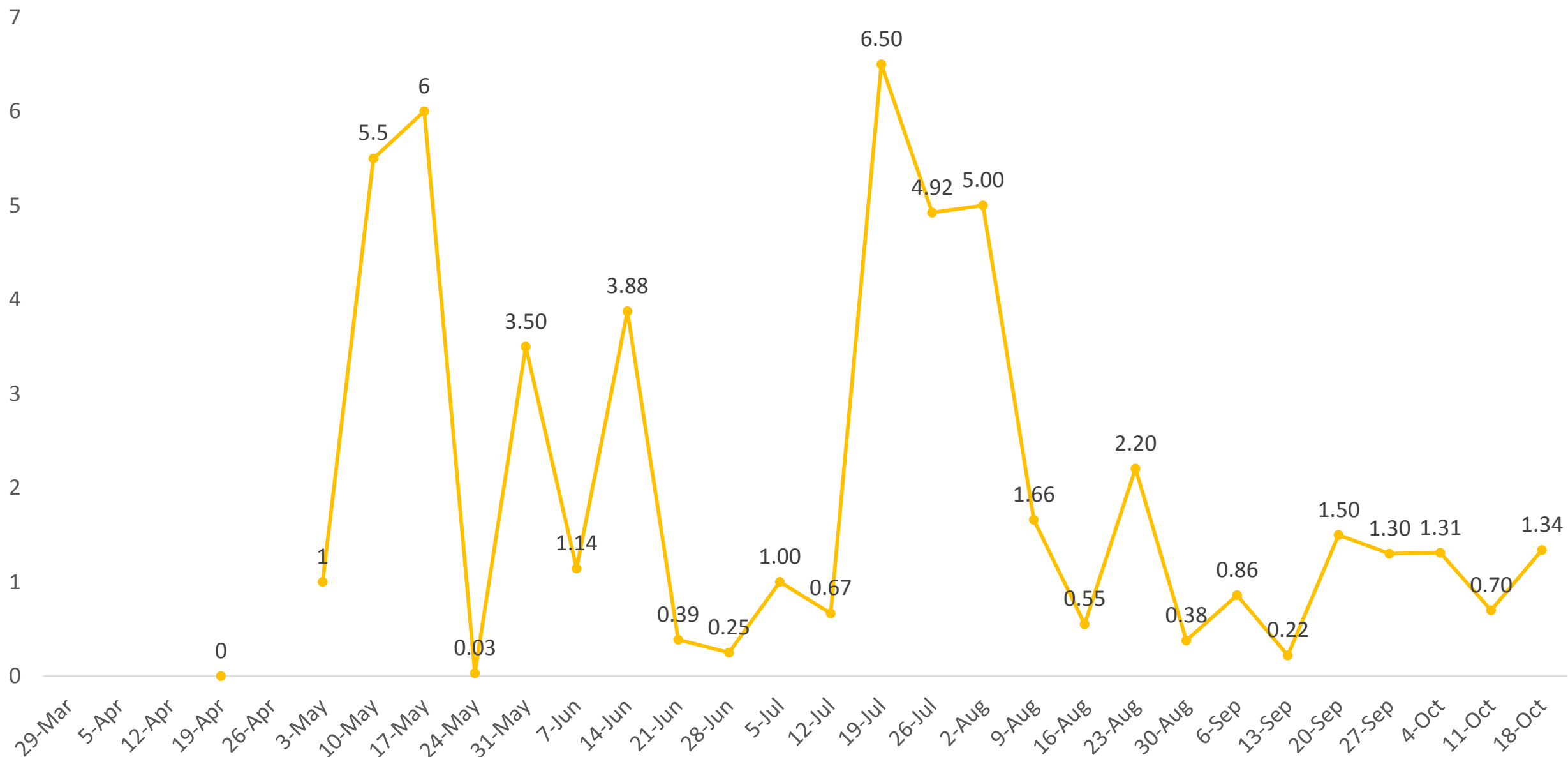
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>

Reproduction Number of Kathmandu





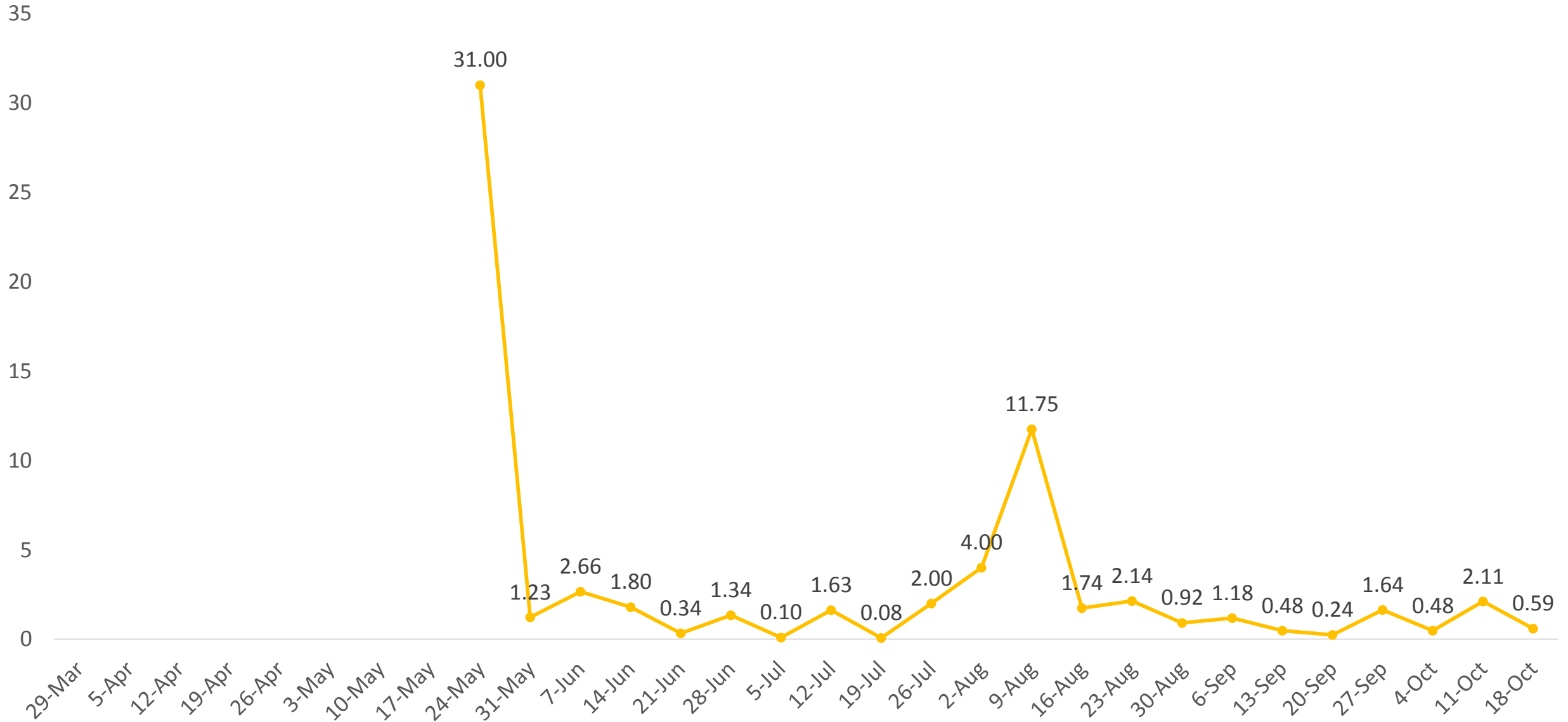
Reproduction Number of Parsa





Data Source: Ministry of Health and Population-Nepal: <https://covid19.mohp.gov.np/>

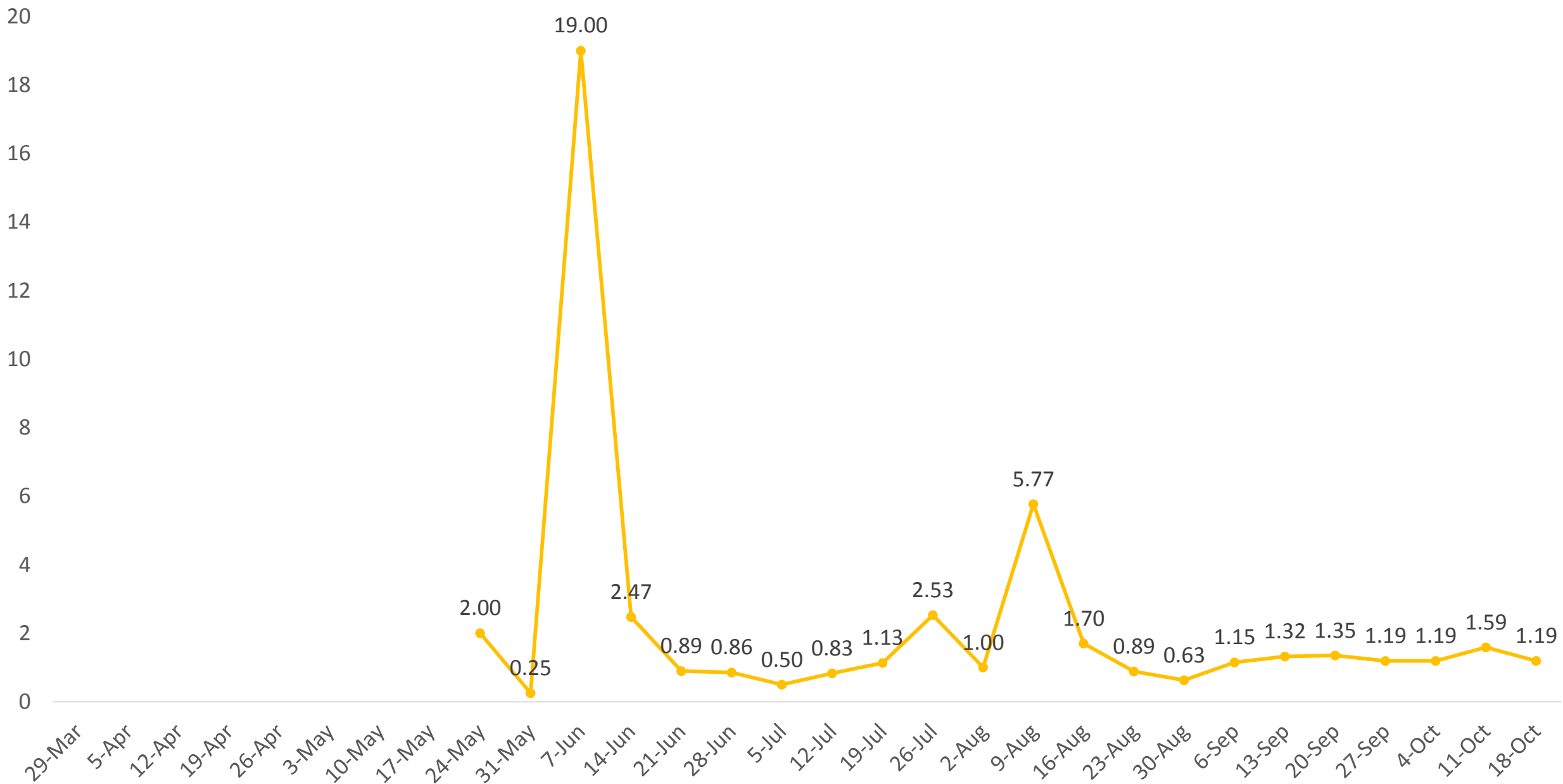
Reproduciton Number of Sarlahi





Data Source: Ministry of Health and Population-Nepal: <https://covid19.mohp.gov.np/>

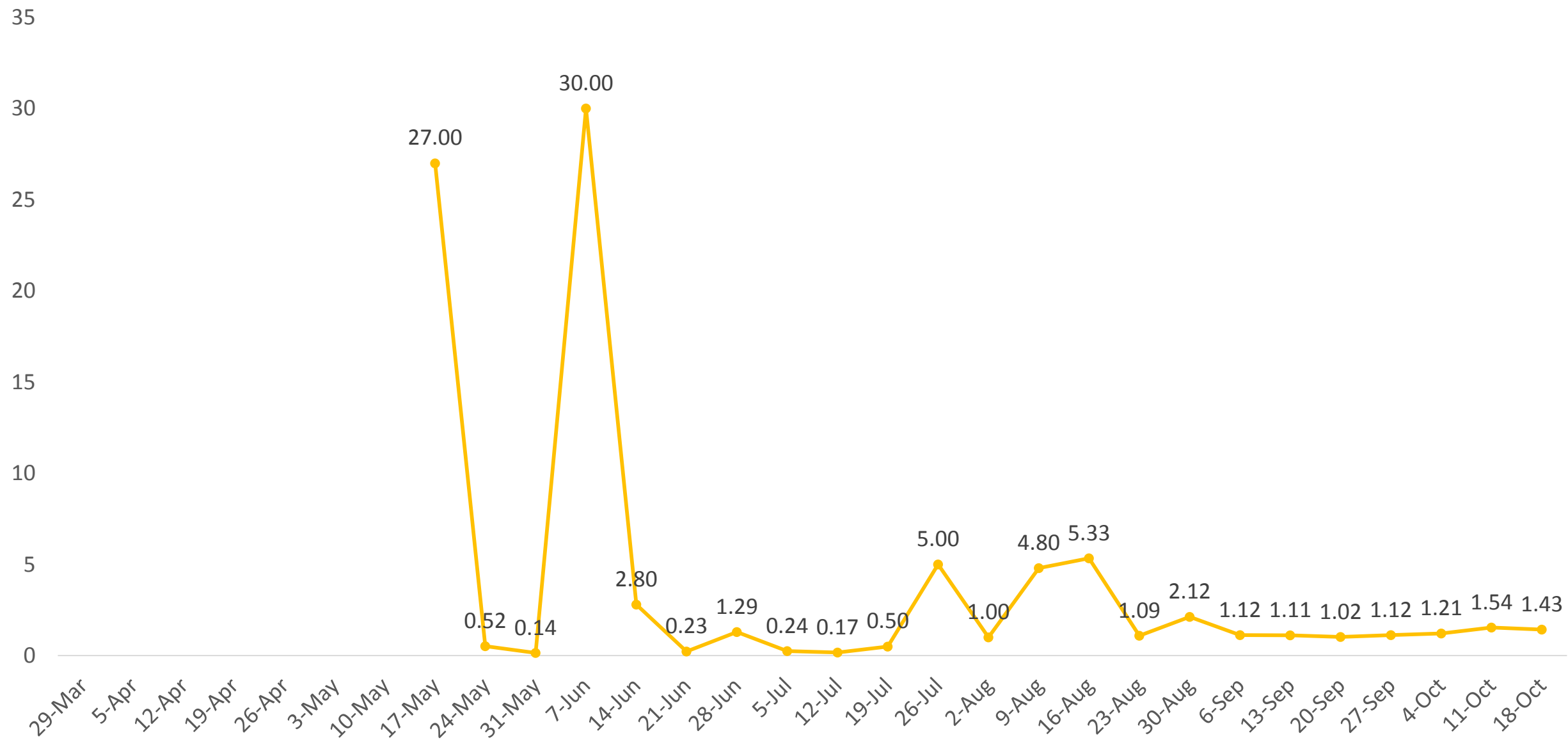
Reproduction Number of Morang





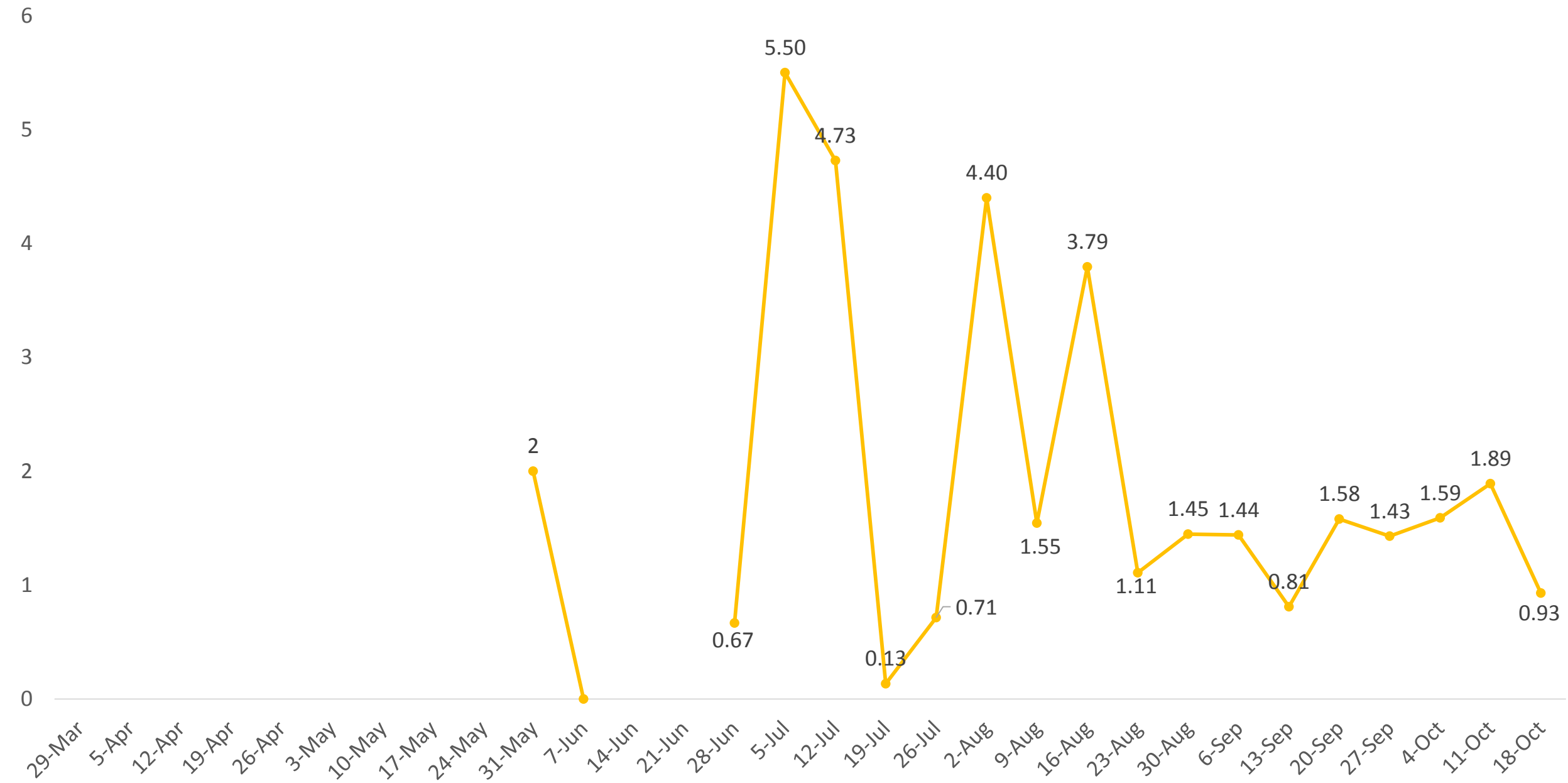
Data Source: Ministry of Health and Population-
Nepal: <https://covid19.mohp.gov.np/>

Reproduction Number of Rupandehi



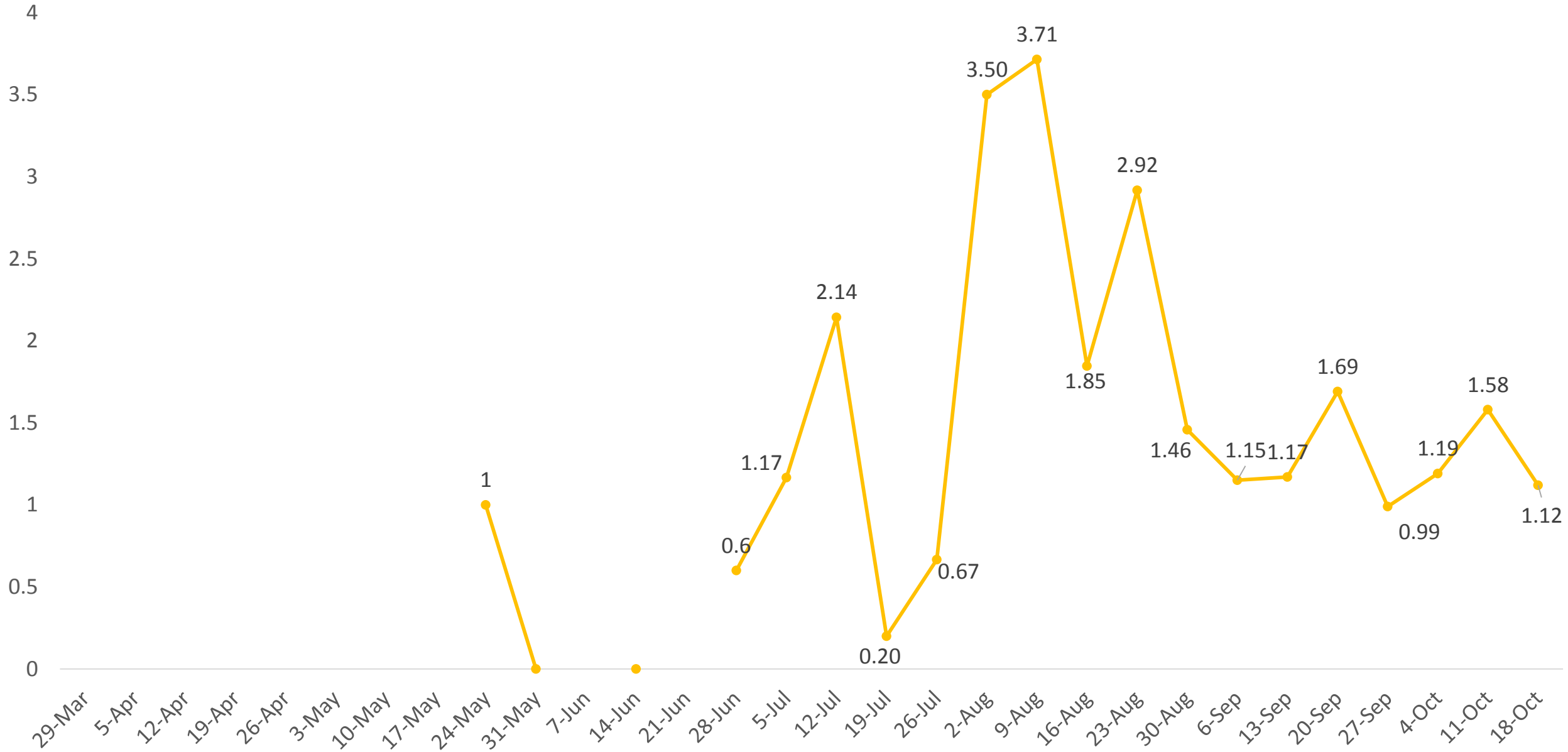


Reproduction Number of Lalitpur

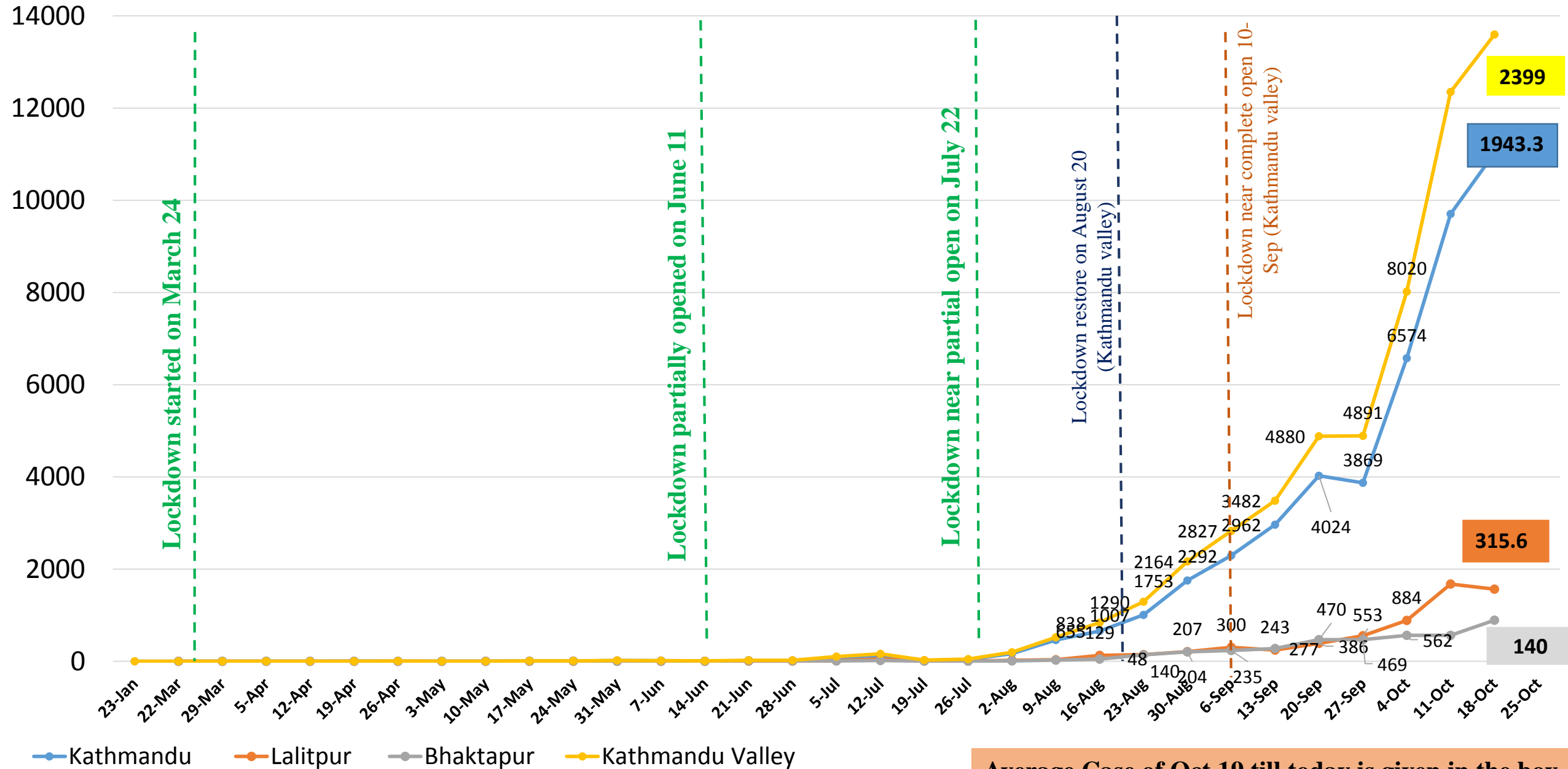




Reproduction Number of Bhaktapur

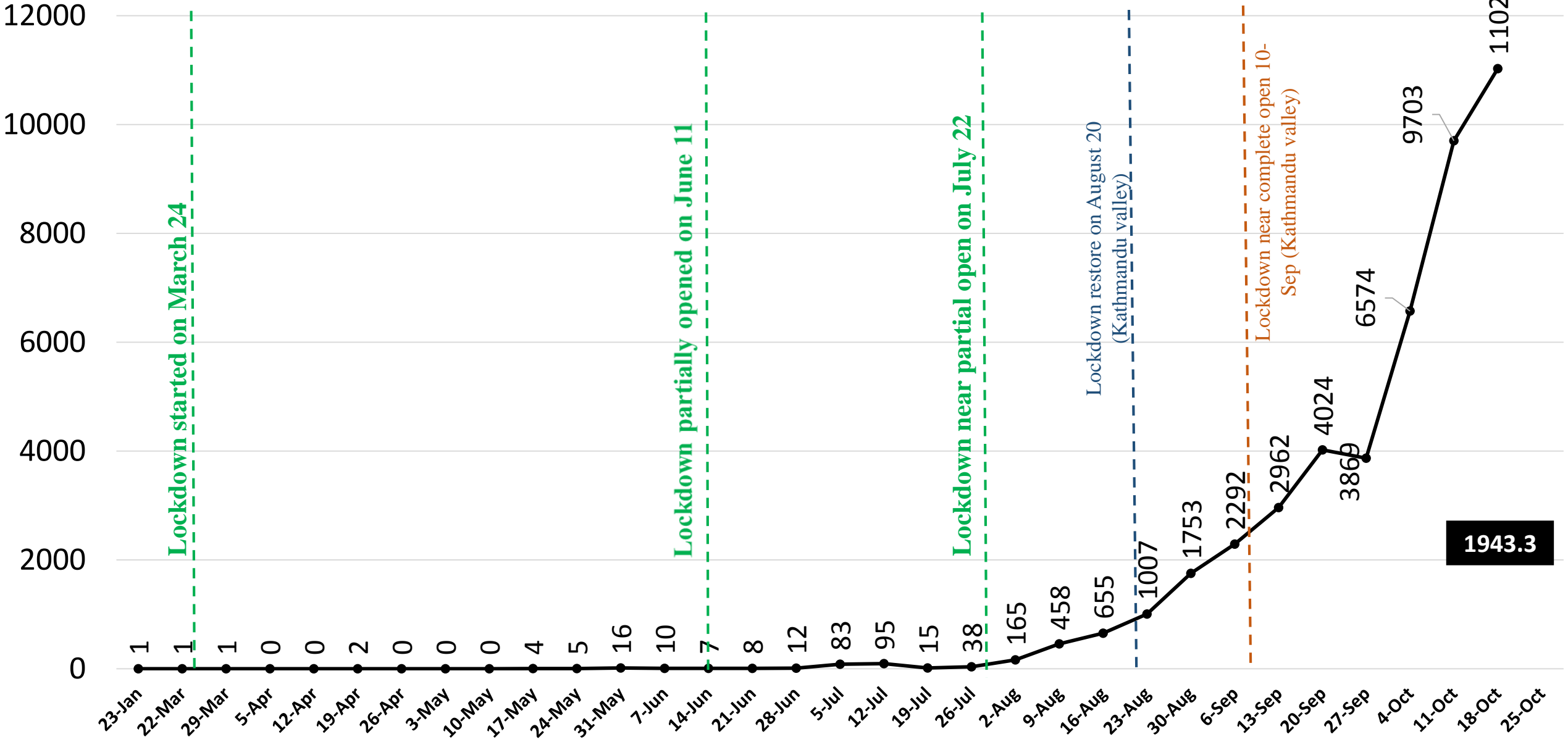


Weekly Hotspot- Kathmandu Valley



Average Case of Oct 19 till today is given in the box

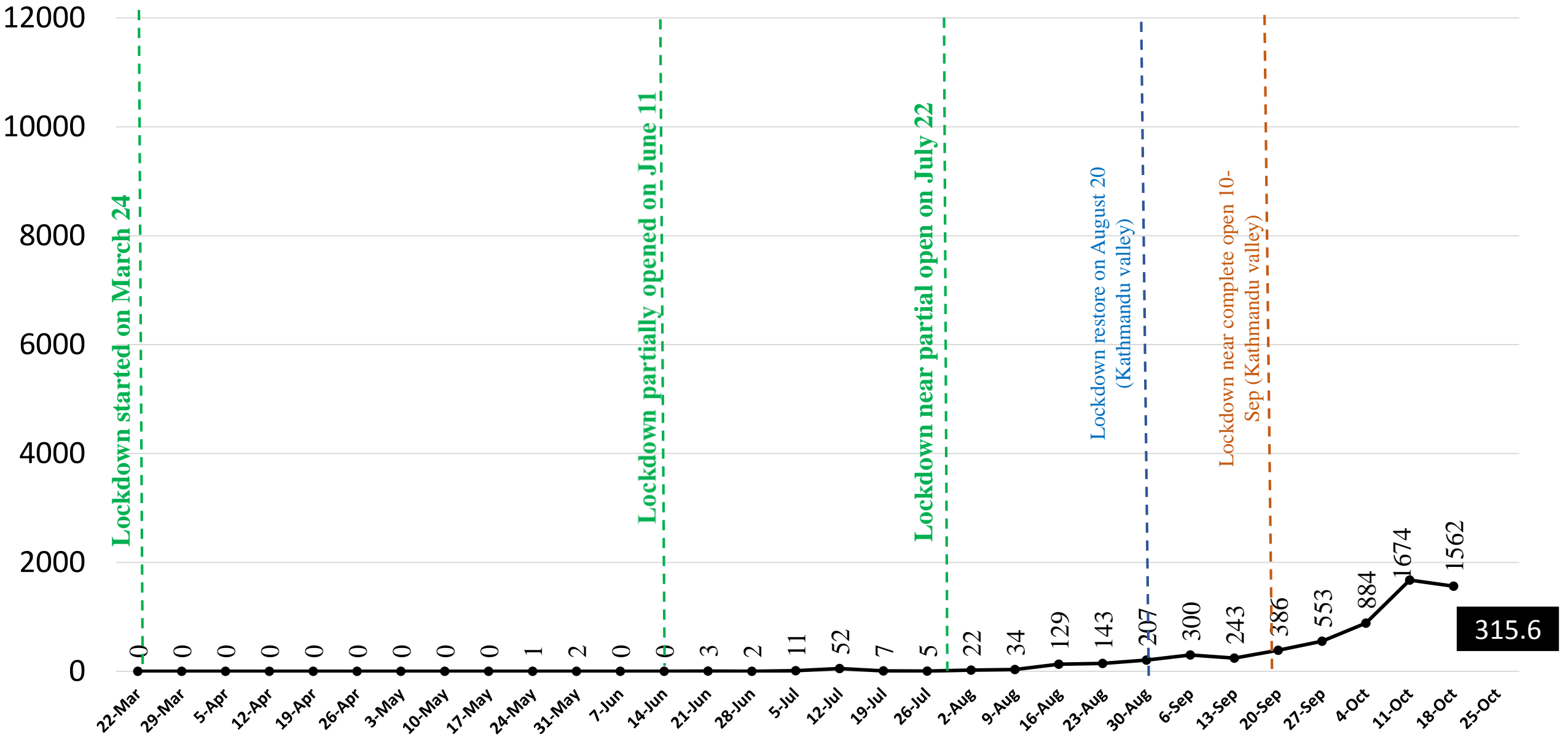
Weekly Hotspot- Kathmandu



Average Case of Oct 19 till today is given in the box

1943.3

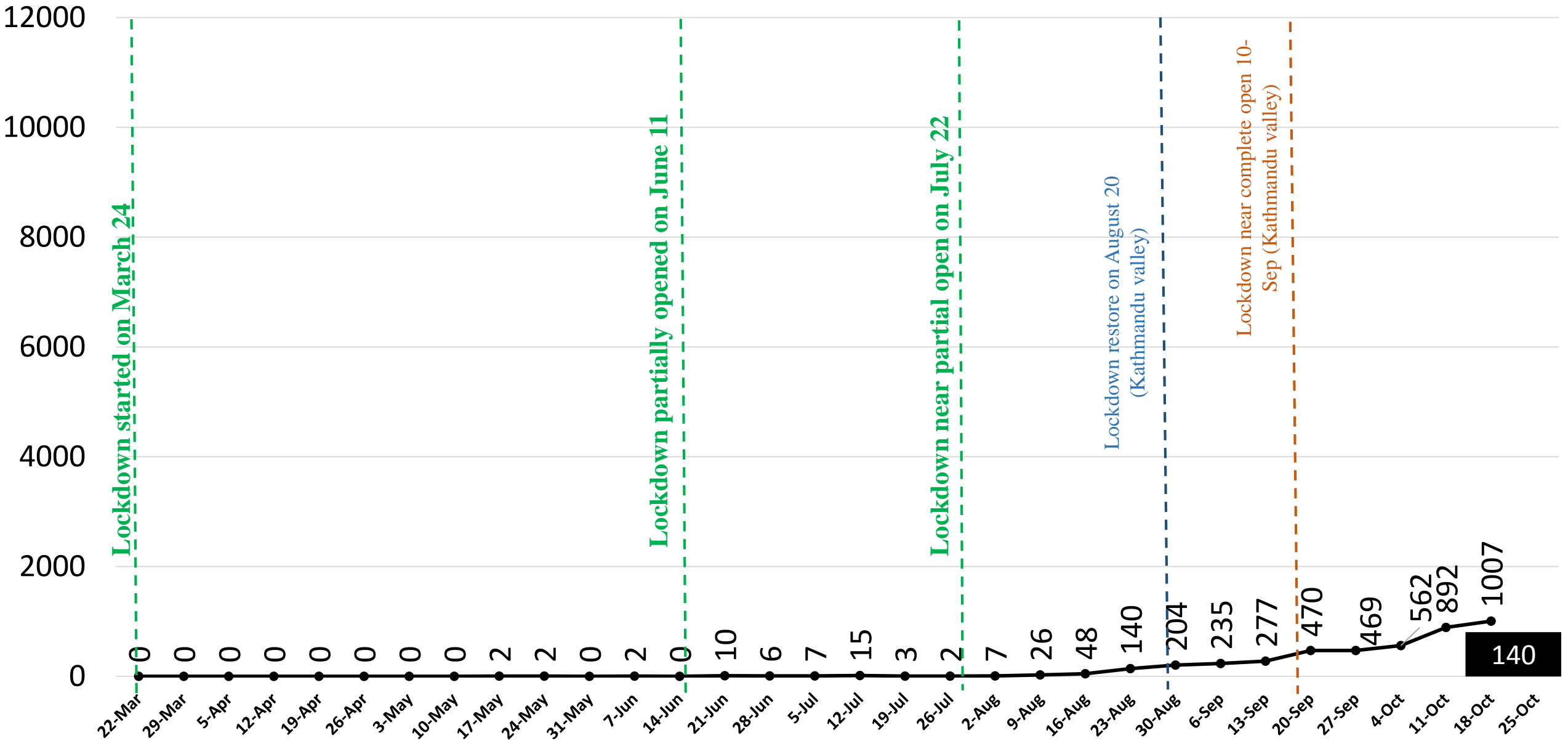
Weekly Hotspot- Lalitpur



315.6

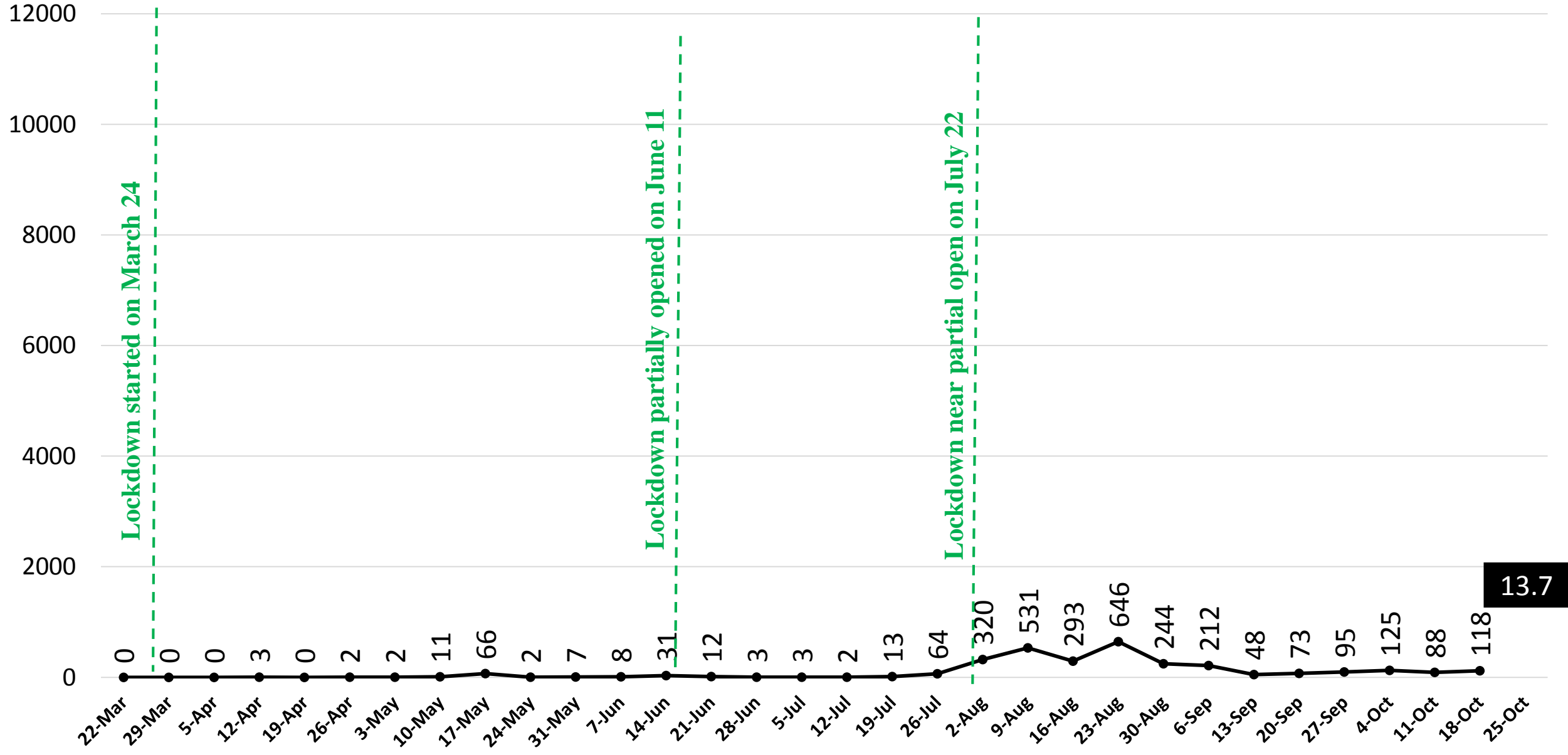
Average Case of Oct 19 till today is given in the box

Weekly Hotspot- Bhaktapur



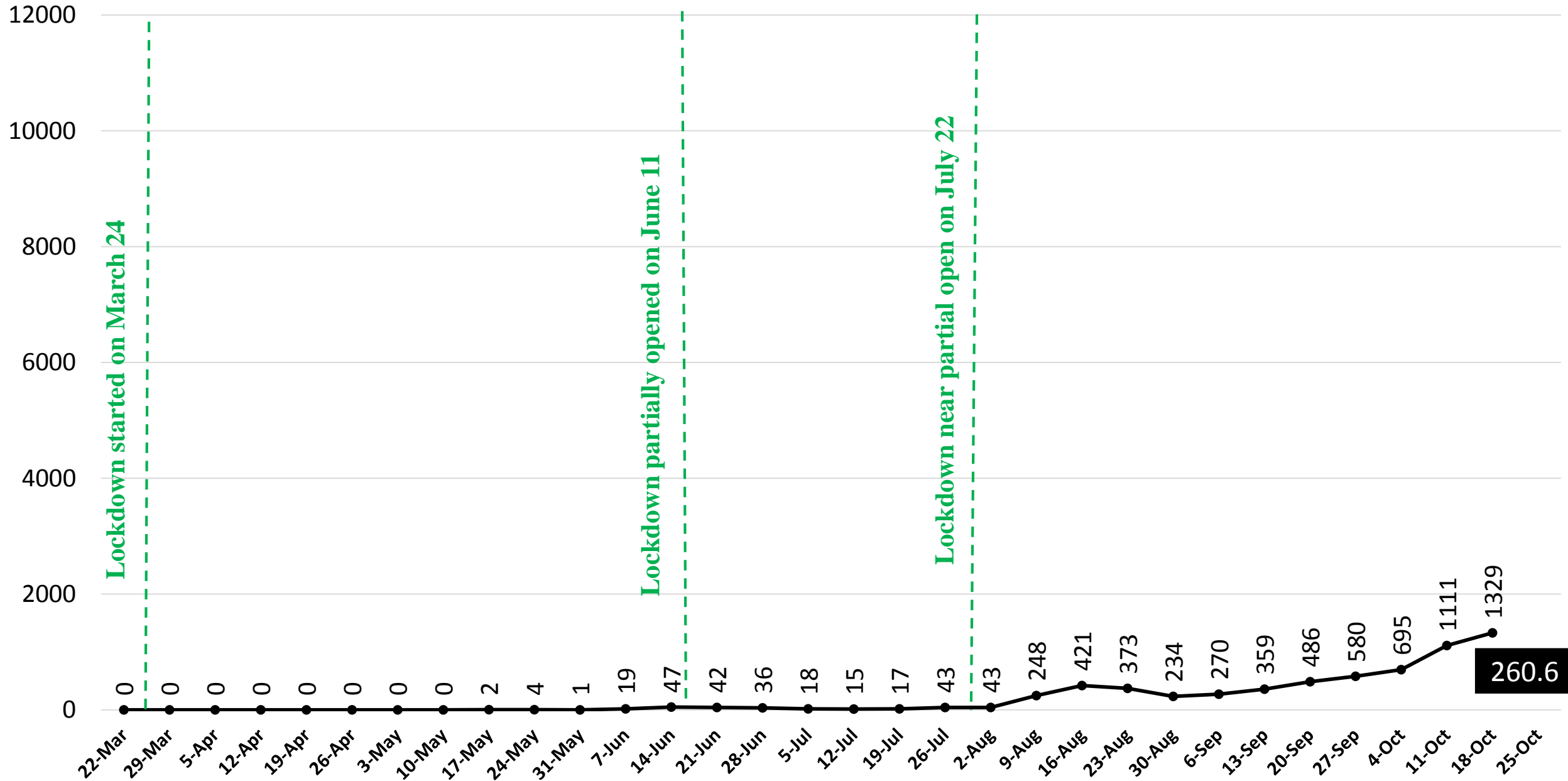
Average Case of Oct 19 till today is given in the box

Weekly Hotspot-Parsa



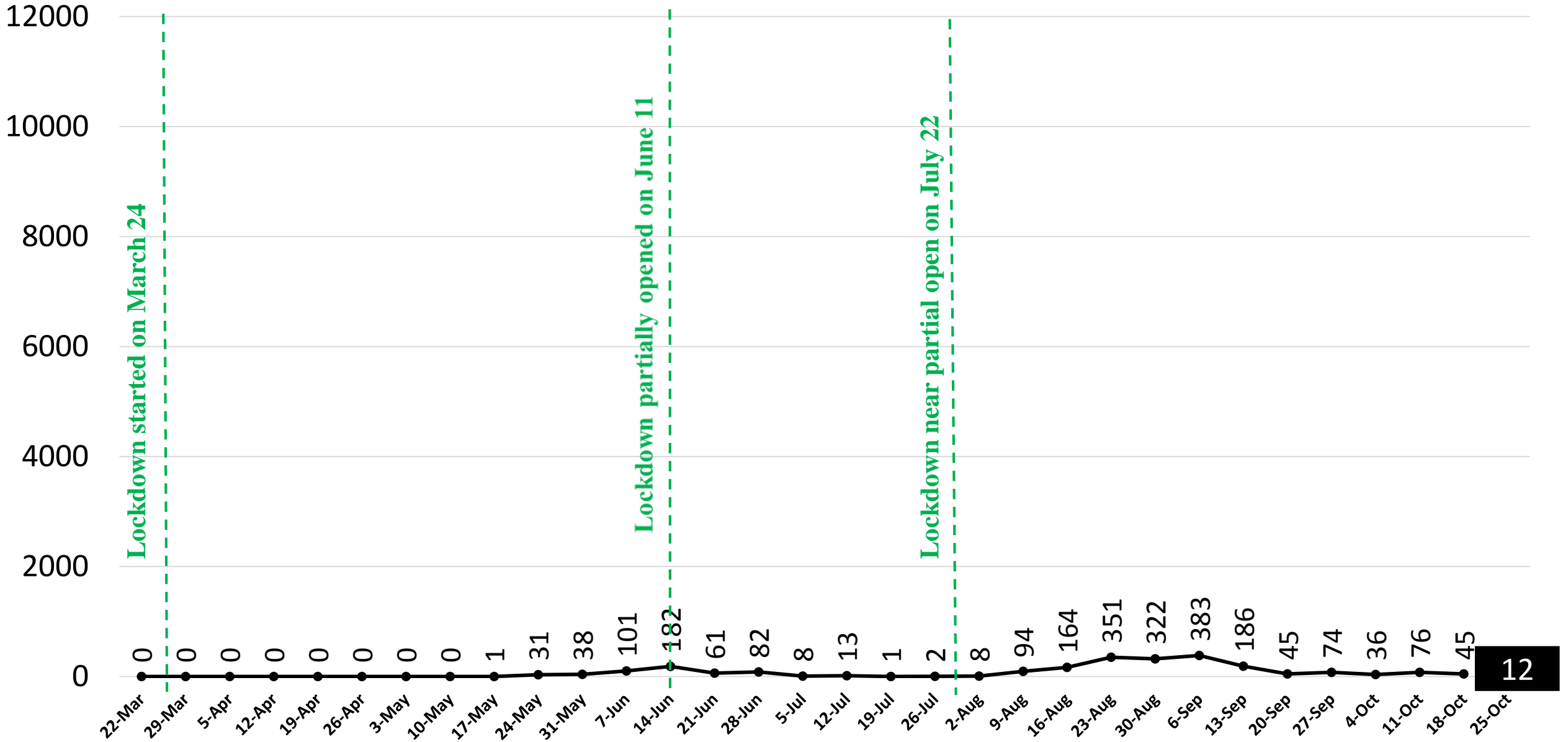
Average Case of Oct 19 till today is given in the box

Weekly Hotspot- Morang



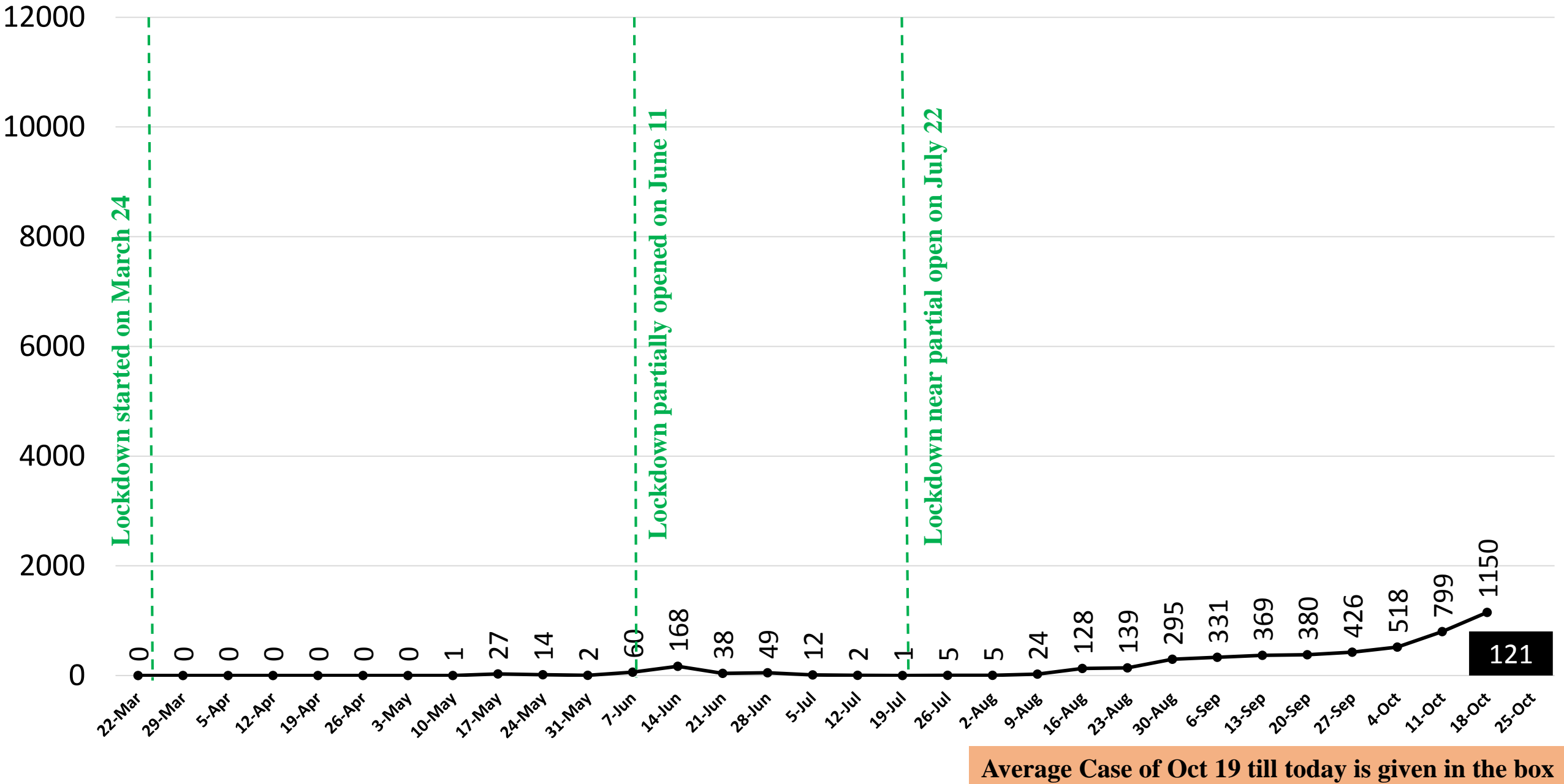
Average Case of Oct 19 till today is given in the box

Weekly Hotspot- Sarlahi



Average Case of Oct 19 till today is given in the box

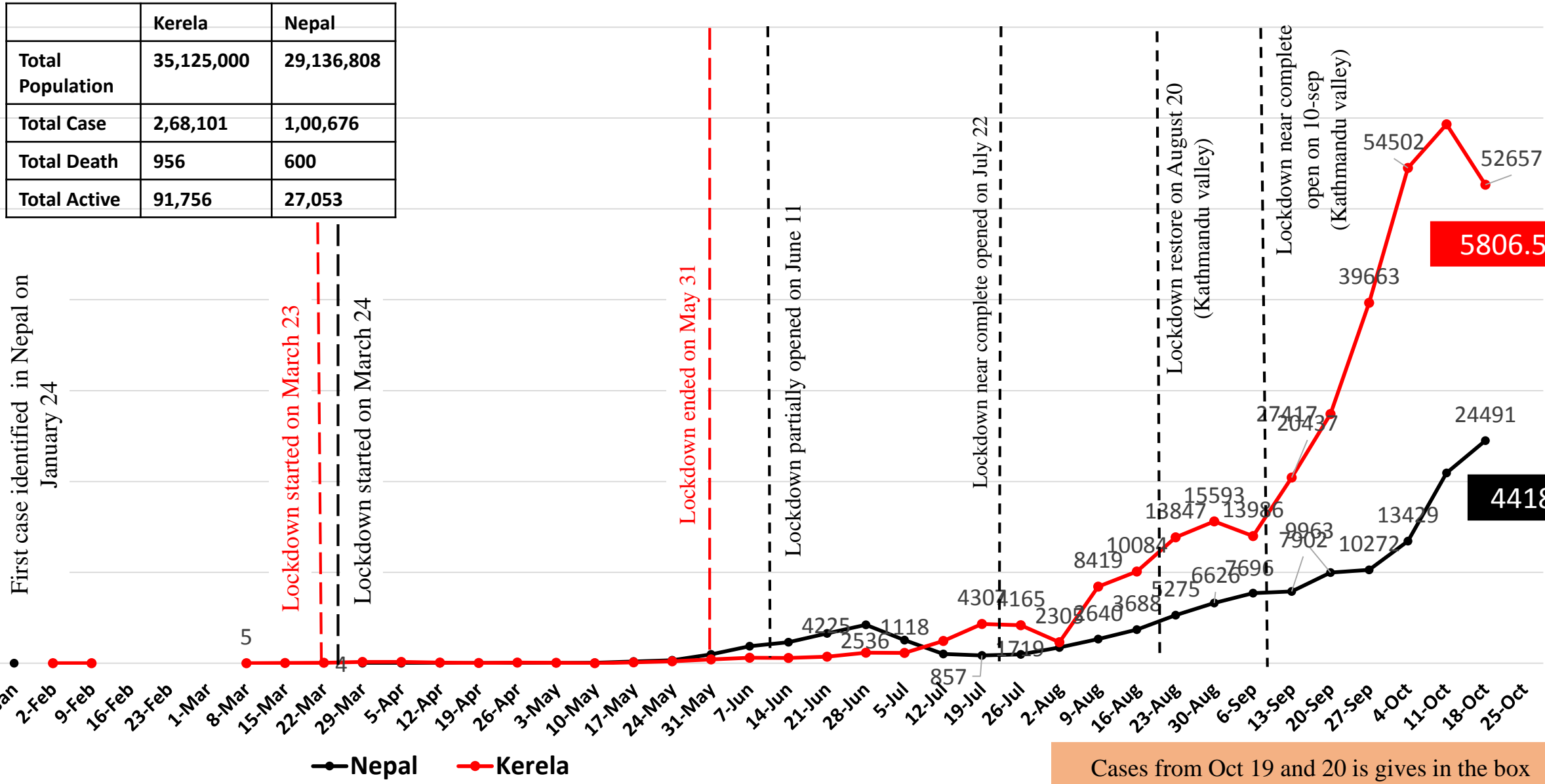
Weekly Hotspot- Rupandehi



Average Case of Oct 19 till today is given in the box



Weekly New cases of Nepal and Kerala till 4-October



The red line in the graph shows starting phase of lockdown and change in its modalities of Kerela whereas black line shows the starting phase of lockdown and change in its modalities of Nepal.