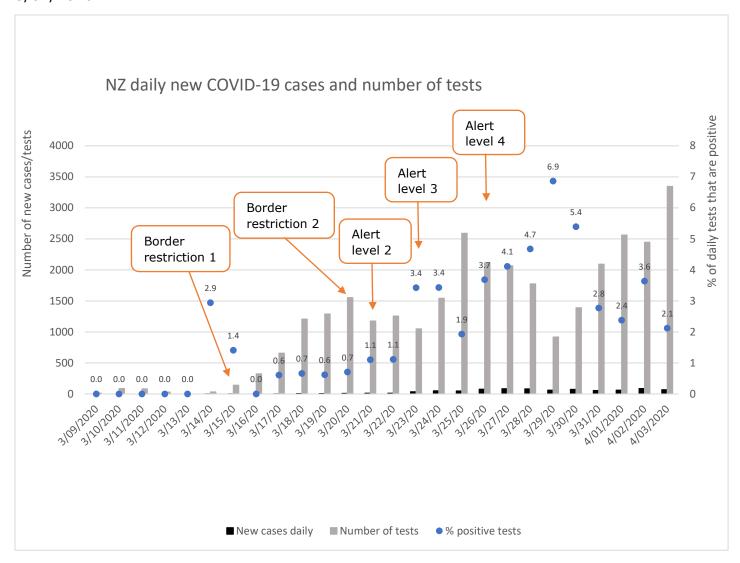


Office of the Prime Minister's Chief Science Advisor Kaitohutohu Mātanga Pūtaiao Matua ki te Pirimia

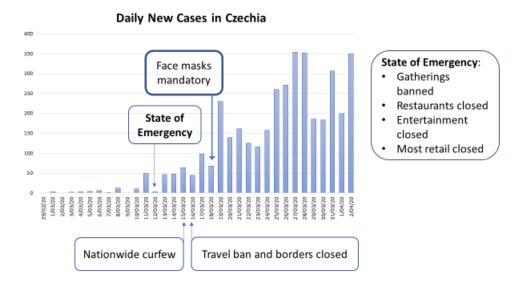
# COVID-19: April Advice

Collated 1 May 2020 Charts and data provided to support verbal advice

For further information and context, listen to an interview Juliet gave on RNZ's Nine to Noon.

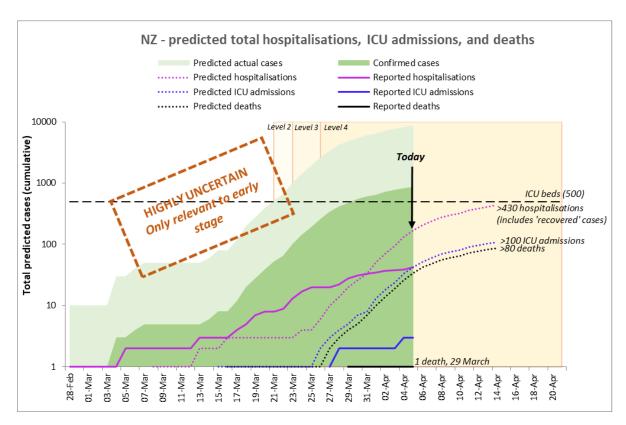


Note: Daily new cases include confirmed and probable



Case numbers: Johns Hopkins University Interventions: Ministry of the Interior of the Czech Republic, Wikipedia

#### 5/04/2020 - HIGHLY UNCERTAIN - ONLY RELEVANT TO EARLY STAGE



Median time from onset of symptoms to ICU admission has been reported as approximately ten days. <sup>1</sup> This time has been applied to confirmed NZ cases<sup>2</sup> with an assumption that 90% of actual cases have been missed<sup>3</sup>, at a rate of 5% for hospitalisations, 1.25% for ICU admissions and 1% for deaths<sup>4</sup>.

Reported hospitalisations are from Ministry of Health data.<sup>5</sup> The hospitalisations are cumulative and have not allowed for those leaving hospital, so the graph is only relevant to the early stage of the response.

 $<sup>^{1}</sup> See \ \underline{https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext} \ and \ \underline{https://www.nejm.org/doi/full/10.1056/NEJMe2002387}$ 

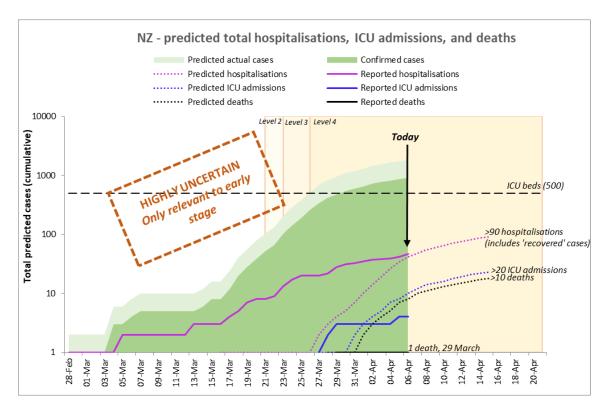
<sup>&</sup>lt;sup>2</sup> NZ data to 25 March collated from daily stand-up meetings; only **confirmed** cases included here.

<sup>&</sup>lt;sup>3</sup> We have assumed only 10% of actual cases in NZ have been identified and confirmed.

<sup>&</sup>lt;sup>4</sup> Figures taken from model assumptions under 'realistic' scenario from 'COVID-19 Modelling Update', 26 March 20, produced by Te Punaha Matatini with support from Orion Health, Contact Shaun Hendy.

<sup>&</sup>lt;sup>5</sup> Hospitalisation date may not align with actual admission date.

#### 6/04/2020 - HIGHLY UNCERTAIN - ONLY RELEVANT TO EARLY STAGE



Median time from onset of symptoms to ICU admission has been reported as approximately ten days. <sup>6</sup> This time has been applied to confirmed NZ cases<sup>7</sup> with an assumption that 50% of actual cases have been missed<sup>8</sup>, at a rate of 5% for hospitalisations, 1.25% for ICU admissions<sup>9</sup> and 1% for deaths<sup>10</sup>.

Reported hospitalisations are from Ministry of Health data.<sup>11</sup> The hospitalisations are cumulative and have not allowed for those leaving hospital, so the graph is only relevant to the early stage of the response.

<sup>&</sup>lt;sup>6</sup> See <a href="https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext">https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext</a> and <a href="https://www.nejm.org/doi/full/10.1056/NEJMe2002387">https://www.nejm.org/doi/full/10.1056/NEJMe2002387</a>

<sup>&</sup>lt;sup>7</sup> NZ data to 25 March collated from daily stand-up meetings; only **confirmed** cases included here.

<sup>&</sup>lt;sup>8</sup> We have assumed only 10% of actual cases in NZ have been identified and confirmed.

<sup>&</sup>lt;sup>9</sup> ICU data is approximate – official data not accessed.

<sup>&</sup>lt;sup>10</sup> Figures taken from model assumptions under 'realistic' scenario from 'COVID-19 Modelling Update', 26 March 20, produced by Te Punaha Matatini with support from Orion Health, Contact Shaun Hendy.

<sup>&</sup>lt;sup>11</sup> Hospitalisation date may not align with actual admission date.

Data up to 5 April via JHU at https://github.com/CSSEGISandData/COVID-19/blob/master/csse\_covid\_19\_data/csse\_covid\_19\_time\_series/time\_series\_covid19\_confirmed\_global.csv

		Cases April		Deaths April	
Country	Population	5	% of popn tested positive	5	% of cases that died
France	65000000	64338	0.10%	8078	12.56%
Italy	60000000	128948	0.21%	15887	12.32%
UK	67800000	47806	0.07%	4934	10.32%
Spain	47000000	131646	0.28%	12641	9.60%
Sweden	10000000	6830	0.07%	401	5.87%
Canada	37600000	5687	0.02%	259	4.55%
Denmark	5800000	4369	0.08%	179	4.10%
US	330500000	337072	0.10%	9619	2.85%
Germany	83700000	100123	0.12%	1584	1.58%
Finland	5500000	1927	0.04%	28	1.45%
Taiwan	23800000	363	0.002%	5	1.38%
Croatia	4100000	1182	0.03%	15	1.27%
Norway	5400000	5687	0.11%	71	1.25%
Australia	25500000	5687	0.02%	35	0.62%
Singapore	5800000	1309	0.02%	6	0.46%
Hong					
Kong	7500000	890	0.01%	4	0.45%
NZ	4800000	1039	0.02%	1	0.10%

		total #				
Country	Data	positive	total # tosts	% positive	total # deaths	% of dooths
Country	Date	tests	total # tests	tests		% of deaths
New Zealand	5/04/2020	1039 476	36209	2.9% 2.8%	1 1	0.1%
New Zealand	29/03/2020		17120			0.2%
New Zealand	22/03/2020	66	6000	1.1%	0	0.0%
New Zealand	15/03/2020	8	440	1.8%	0	0.0%
New Zealand	8/03/2020	5	229	2.2%	0	0.0%
New Zealand	1/03/2020	1	136	0.7%	0	0.0%
South Korea	5/04/2020	10237	461233	2.2%	183	1.8%
South Korea	29/03/2020	9583	394,141	2.4%	152	1.6%
South Korea	22/03/2020	8897	331,780	2.7%	104	1.2%
South Korea	15/03/2020	8162	268,212	3.0%	75	0.9%
South Korea	8/03/2020	7132	188,518	3.8%	50	0.7%
South Korea	1/03/2020	3526	96,985	3.6%	17	0.5%
Italy	5/04/2020	128948	691461	18.6%	15887	12.3%
Italy	29/03/2020	97689	454030	21.5%	10779	11.0%
Italy	22/03/2020	59138	258402	22.9%	5476	9.3%
Italy	15/03/2020	24747	124889	19.8%	1809	7.3%
Italy	8/03/2020	7375	49937	14.8%	366	5.0%
Italy	2/03/2020	2036	23345	8.7%	54	2.7%
UK	5/04/2020	47806	195524	24.5%	4934	10.3%
UK	29/03/2020	19522	127737	15.3%	1228	6.3%
UK	22/03/2020	5018	72818	6.9%	233	4.6%
UK	15/03/2020	1140	37746	3.0%	21	1.8%
UK	8/03/2020	273	23513	1.2%	2	0.7%
UK	1/03/2020	35	11750	0.3%	0	0.0%
US	5/04/2020	332308	1762050	18.9%	9498	2.9%
US	29/03/2020	139061	831351	16.7%	2428	1.7%
US	22/03/2020	31879	225342	14.1%	398	1.2%
US	15/03/2020	3173	25724	12.3%	60	1.9%
US	8/03/2020	417	2752	15.2%	0	0.0%
US	1/03/2020					

# COVID-19 in Australia

A state-by-state analysis, data collated 7 April 2020

Data up to 5 April from Johns Hopkins University <a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>

Testing data from Covid Live: <a href="https://www.covidlive.com.au/">https://www.covidlive.com.au/</a> (only available from 29 March, supplemented with Guardian Australia data where available)

Also see: <a href="https://www.covid19data.com.au/">https://www.covid19data.com.au/</a>

#### New South Wales (NSW)

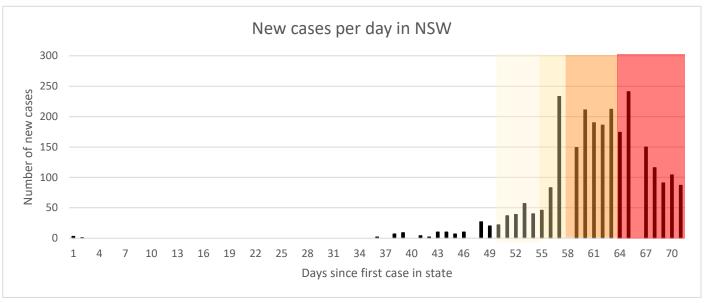
Population	7.5 million
Cases	2580
(total)	
Tests	124,038
(total)	
Deaths	16
(total)	

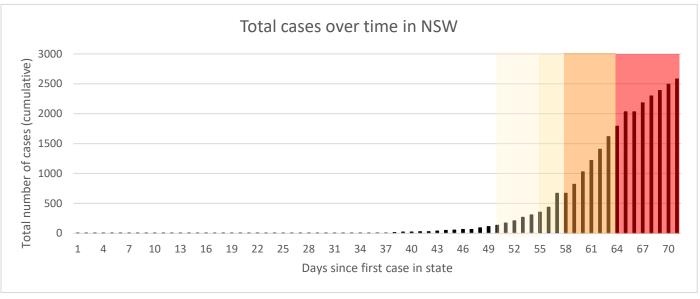
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

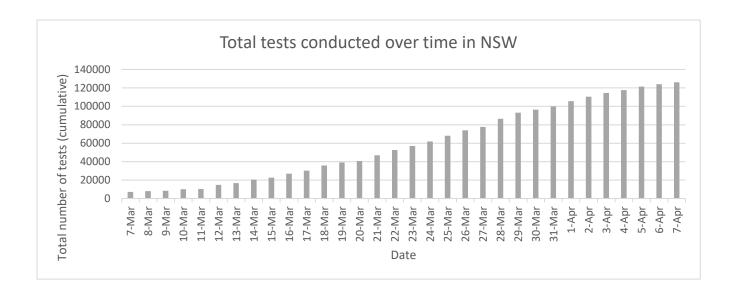
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

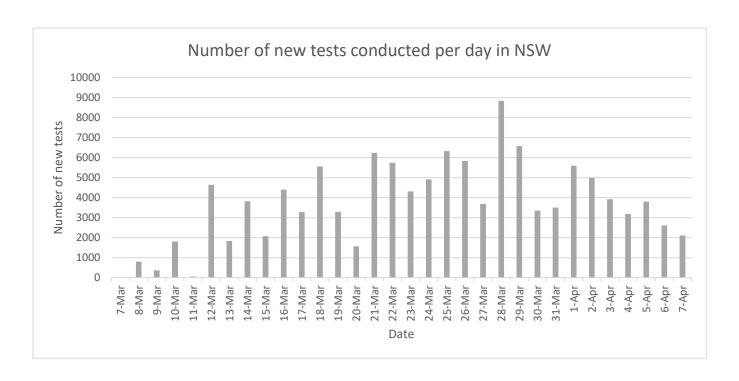
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

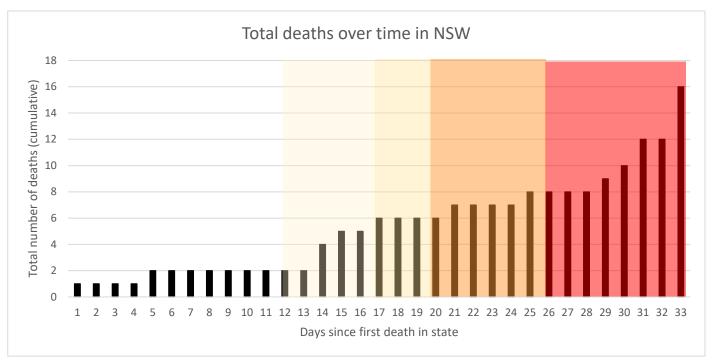
**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues <u>public health restrictions</u> beginning 31 March

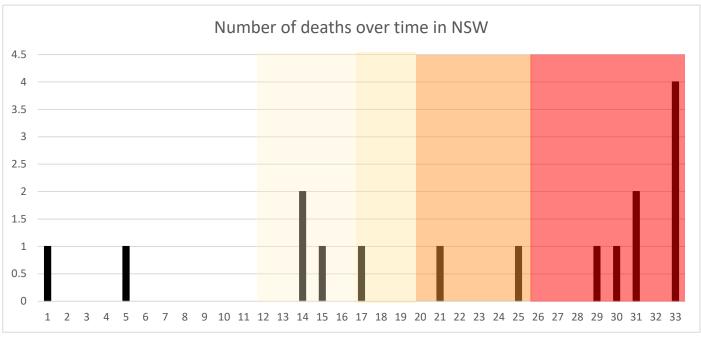












**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues <u>public health restrictions</u> beginning 31 March

### Victoria (VIC)

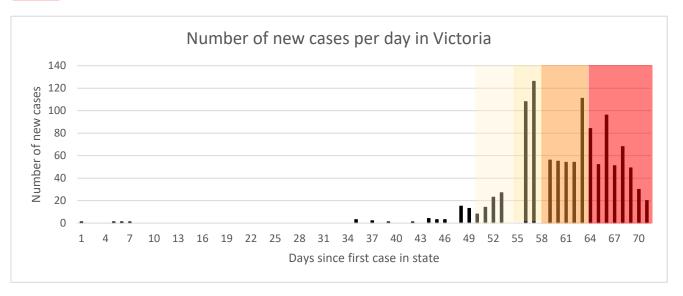
Population	6.4 million
Cases	1135
(total)	
Tests	57,000
(total)	
Deaths	8
(total)	

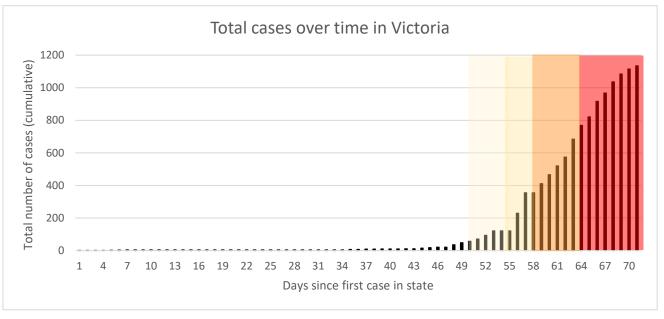
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

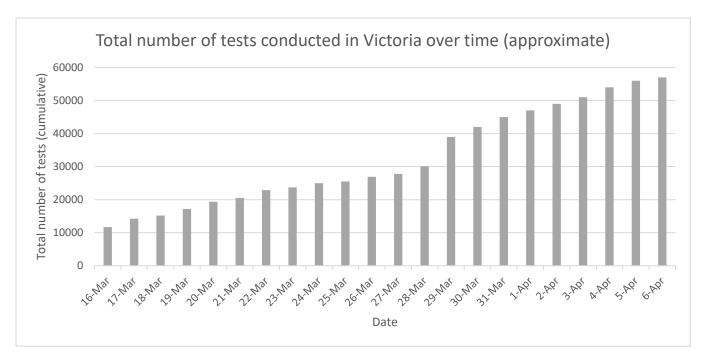
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

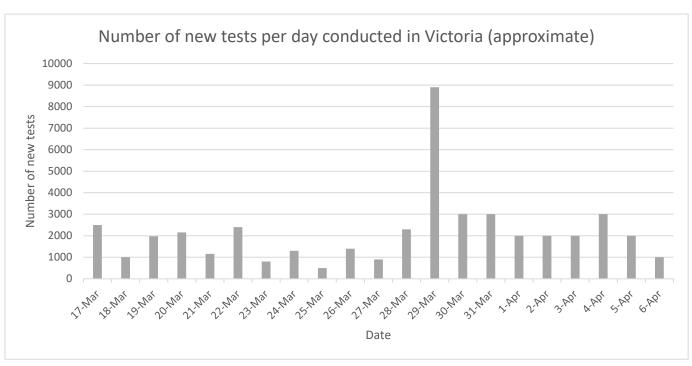
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

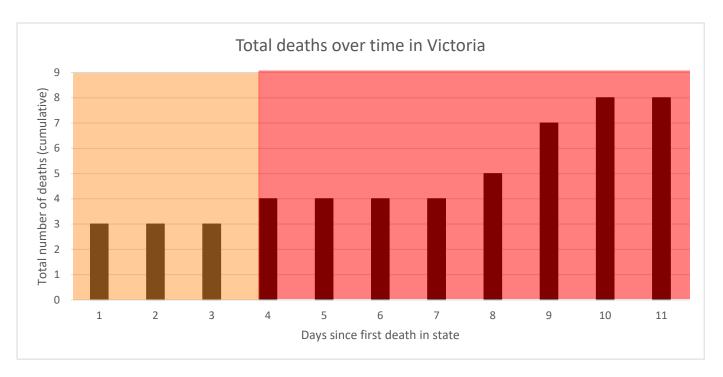
**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues <u>stay at home directions</u> beginning 31 March

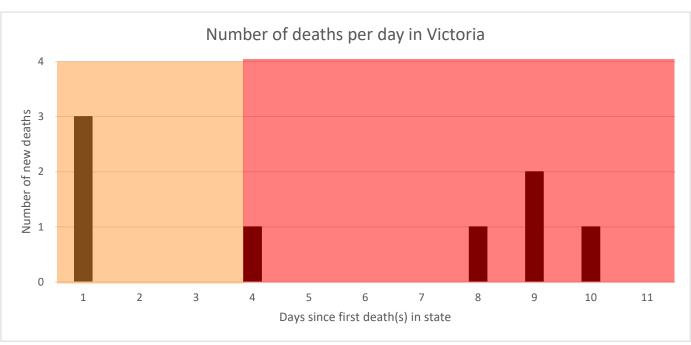












**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues <u>stay at home directions</u> beginning 31 March

#### Queensland (QLD)

Population	5 million
Cases	907
(total)	
Tests	61,834
(total)	·
Deaths	4
(total)	

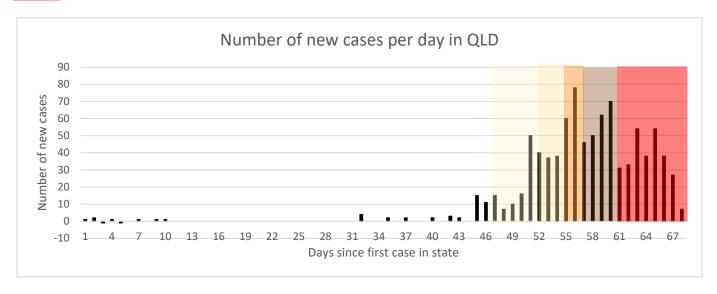
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

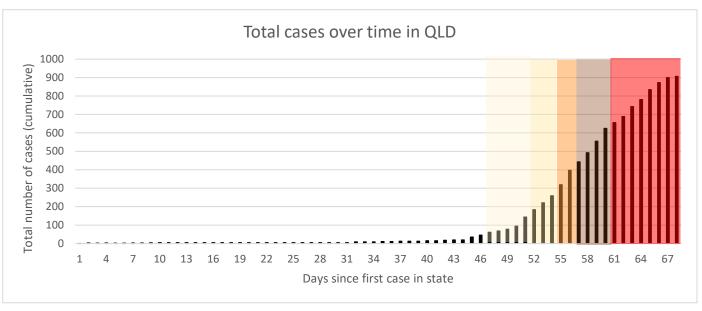
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

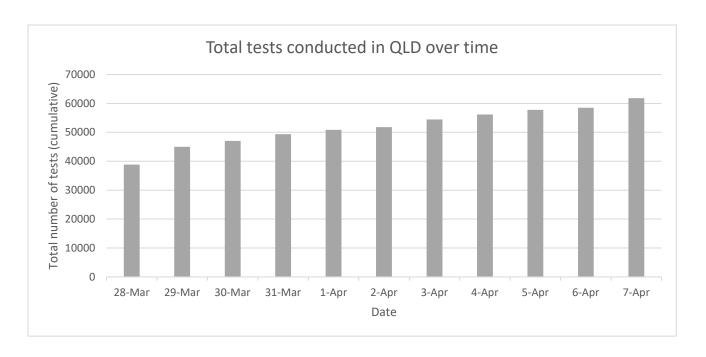
23 March: all non-essential businesses close; cafes & restaurants delivery only

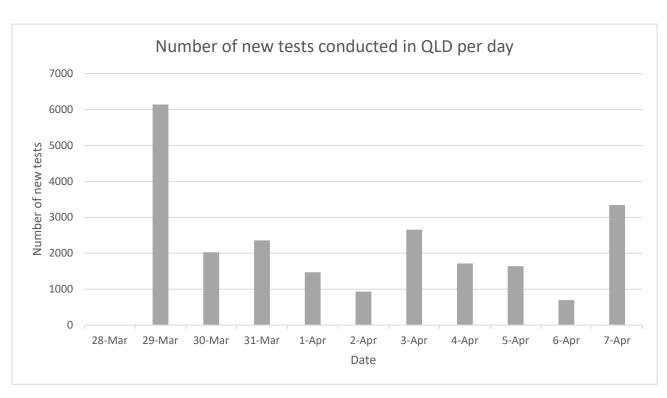
25 March: Queensland borders close to all non-residents

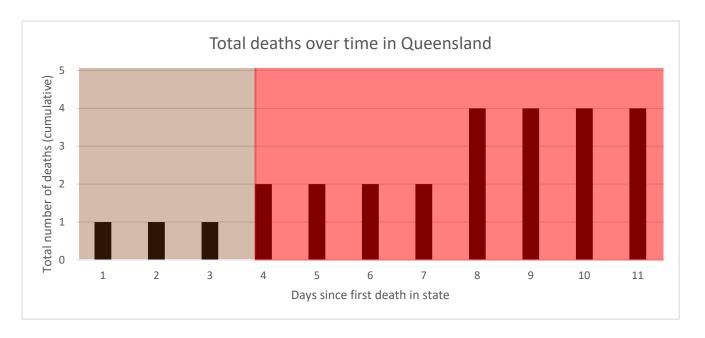
**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues home confinement, movement and gathering public

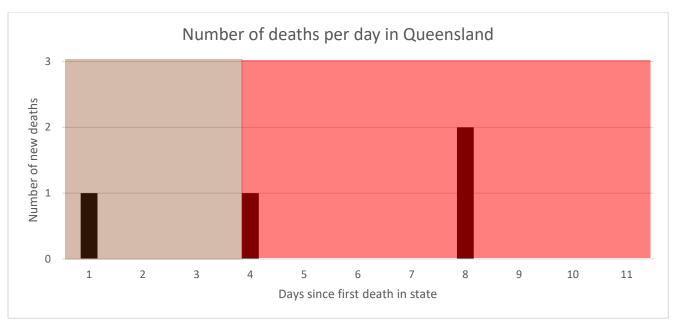












**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

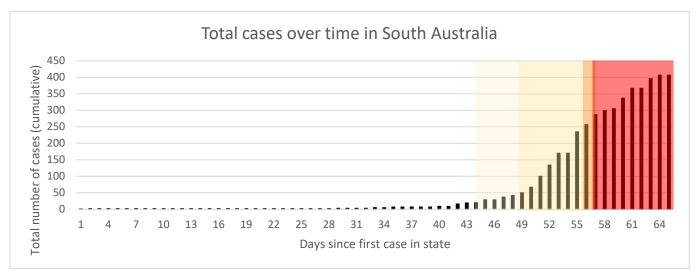
23 March: all non-essential businesses close; cafes & restaurants delivery only

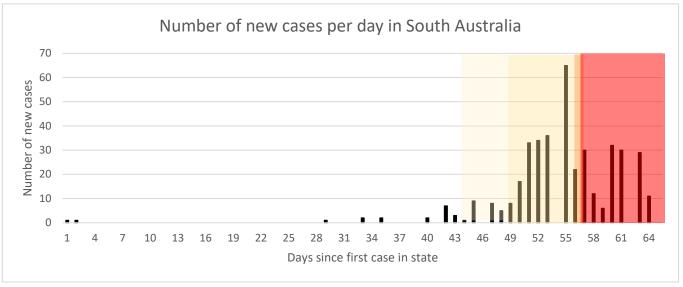
**25 March**: Queensland borders close to all non-residents

**29 March**: federal government limits gatherings to max. two people; state adopts this policy and issues <a href="https://example.com/homent.novement">home confinement, movement and gathering public</a>

#### South Australia (SA)

	, ,
Population	1.7 million
Cases	407
(total)	
Tests	33,303
(total)	
Deaths	0
(total)	



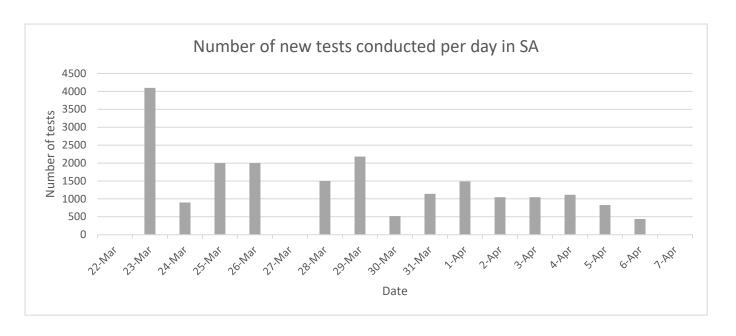


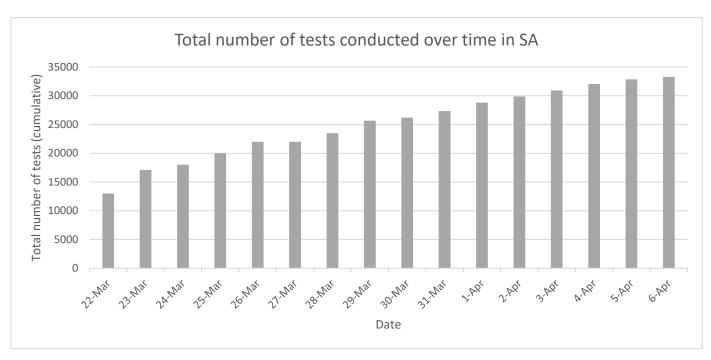
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

**20 March**: Aus borders closed to all non-residents/non-citizens

**27 March:** non-essential businesses close in SA; gatherings limited to 10 people with the 4sqm density rule

**28 March:** all people entering SA must self-isolate (whether from overseas or from another state/territory)





#### Western Australia (WA)

Population	2.6 million
Cases	453
(total)	
Tests	18,726
(total)	
Deaths	3
(total)	

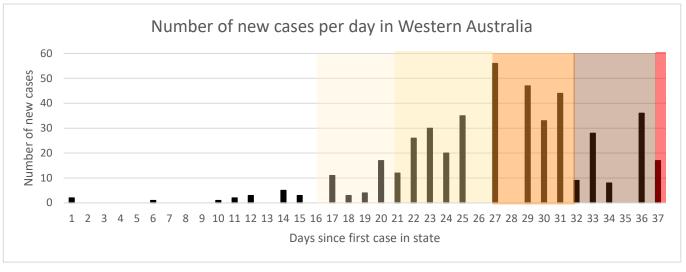
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

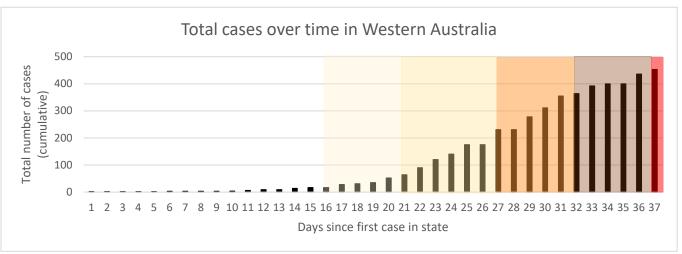
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

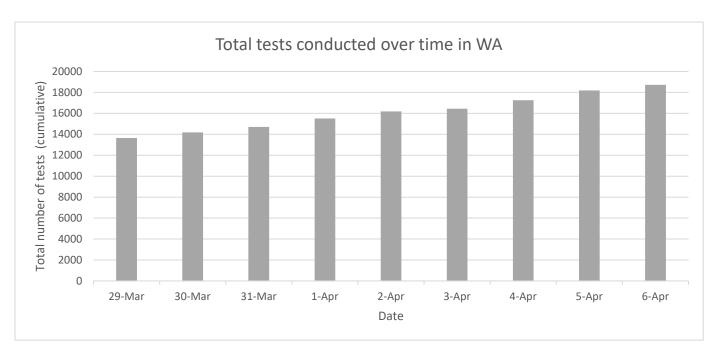
26 March: all non-essential businesses close; cafes & restaurants delivery only

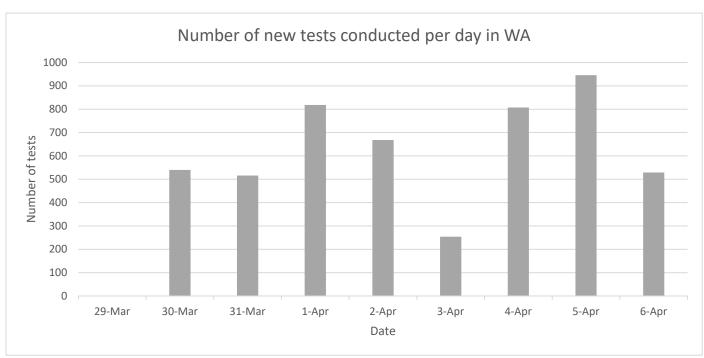
**31 March**: WA divided into nine regions and travel restricted between each region; two-person gathering limit (with some exceptions)

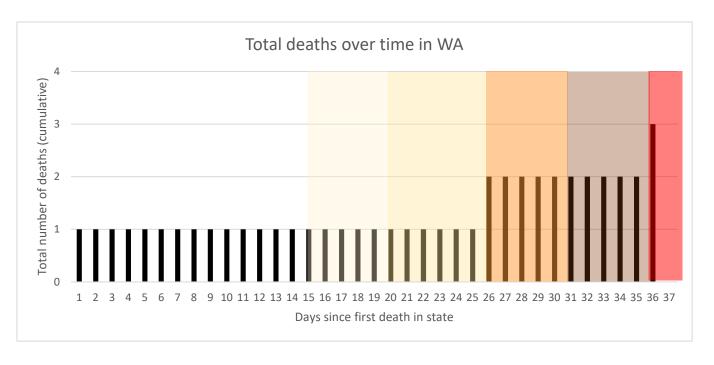
**5 April:** WA closes state borders to non-residents

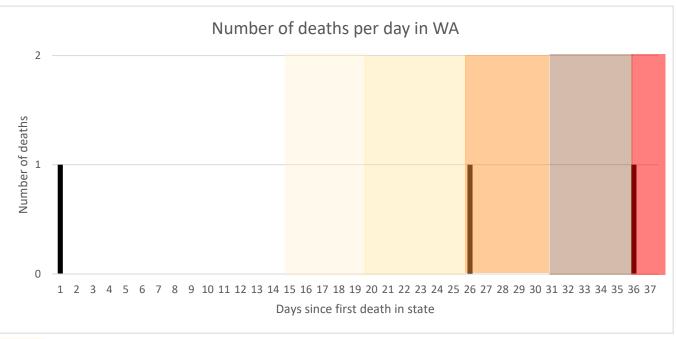












**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

**26 March**: all non-essential businesses close; cafes & restaurants delivery only

**31 March**: WA divided into nine regions and travel restricted between each region; two-person gathering limit (with some exceptions)

**5 April:** WA closes state borders to non-residents

#### Tasmania (TAS)

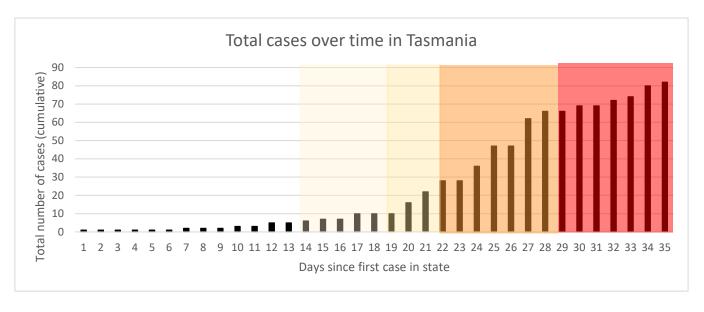
· ·	,
Population	515,000
Cases	82
(total)	
Tests	3100
(total)	
Deaths	2
(total)	

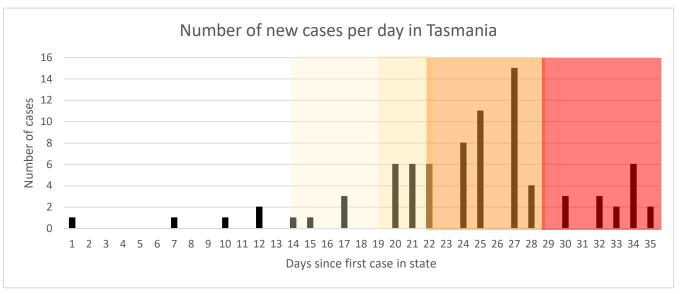
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

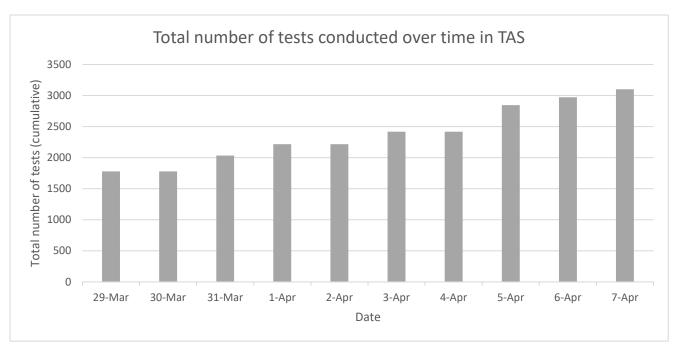
**20 March**: Aus borders closed to all non-residents/non-citizens; Tasmania requires all people entering to self-isolate for 14 days in government-provided

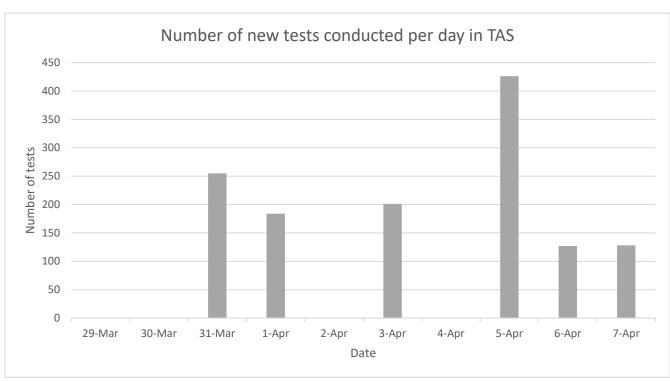
**23 March:** non-essential businesses in Tasmania begin to close; the list becomes more restricted over time

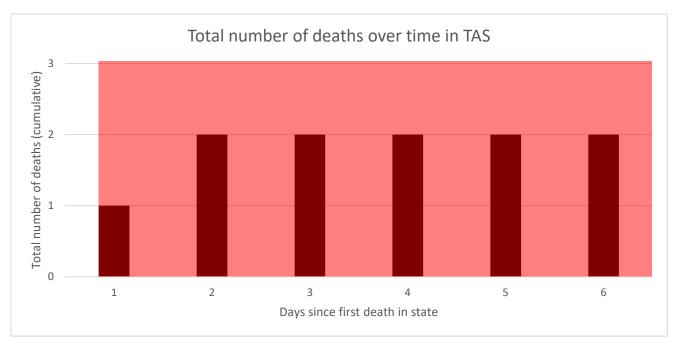
30 March: stay at home order issued

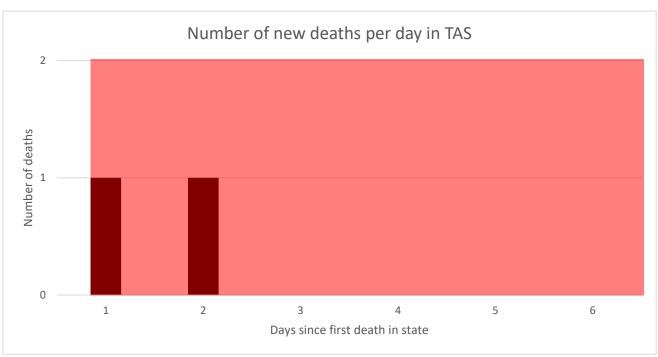












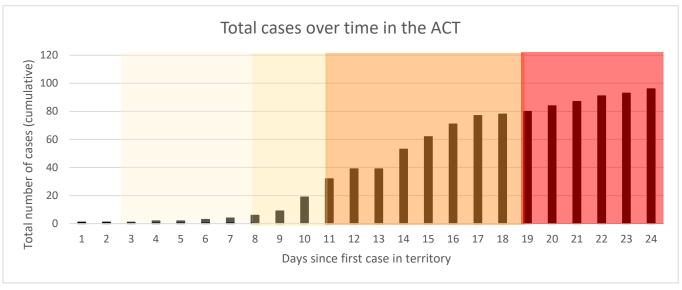
**20 March**: Aus borders closed to all non-residents/non-citizens; Tasmania requires all people entering to self-isolate for 14 days in government-provided

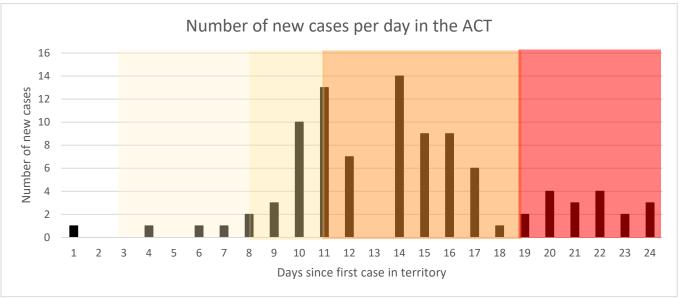
**23 March:** non-essential businesses in Tasmania begin to close; the list becomes more restricted over time

**30 March:** stay at home order issued

## Australian Capital Territory (ACT)

Population	428,000
Cases	96
(total)	
Tests	5594
(total)	
Deaths	2
(total)	



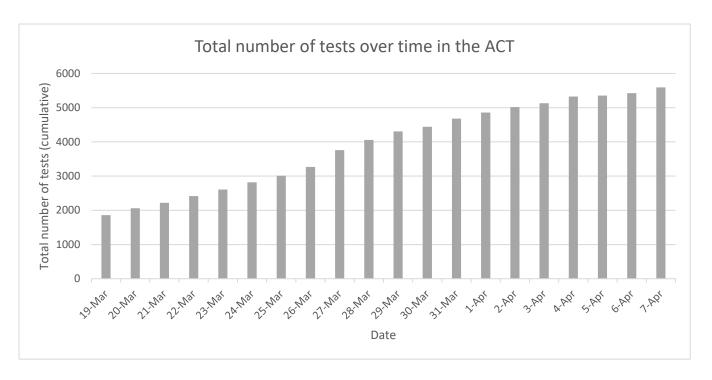


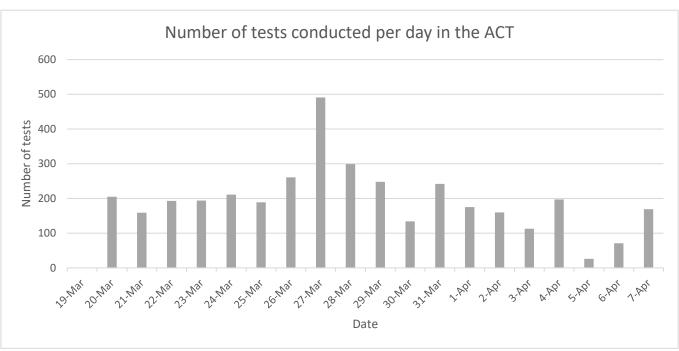
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

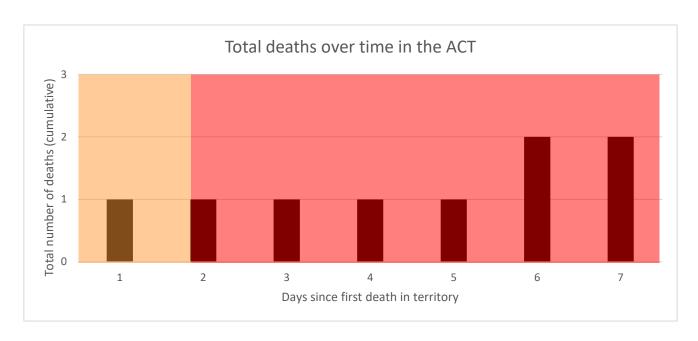
20 March: Aus borders closed to all non-residents/non-citizens

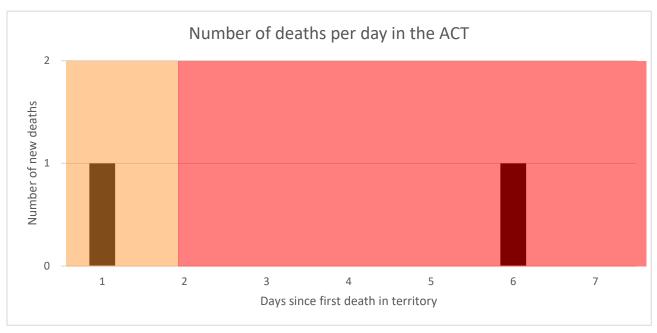
**23 March:** non-essential businesses in ACT begin to close; the list becomes more restricted over time

**31 March:** stay at home order issued; gatherings limited to two people









20 March: Aus borders closed to all non-residents/non-citizens

**23 March:** non-essential businesses in ACT begin to close; the list becomes more restricted over time

**31 March:** stay at home order issued; gatherings limited to two people

### Northern Territory (NT)

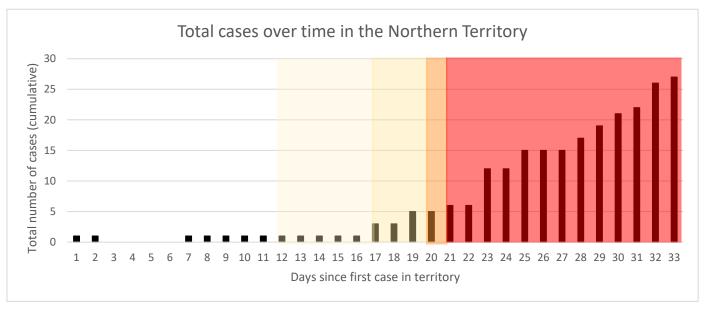
	, , ,
Population	212,000
Cases	27
(total)	
Tests	2805
(total)	
Deaths	0
(total)	

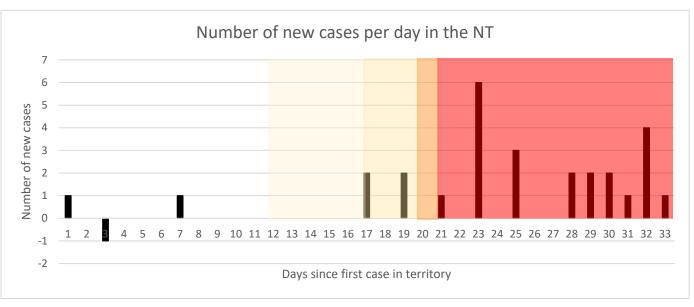
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

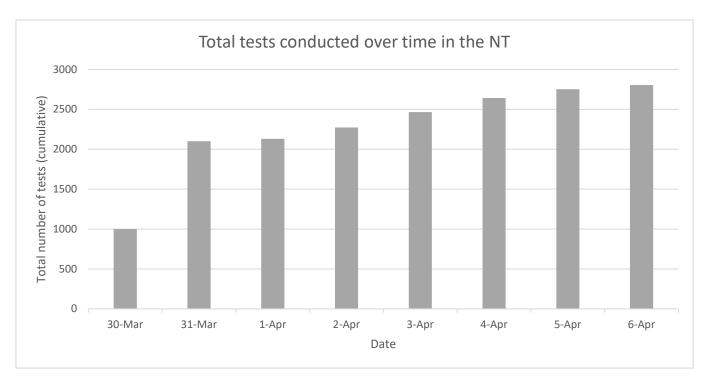
**20 March**: Aus borders closed to all non-residents/non-citizens

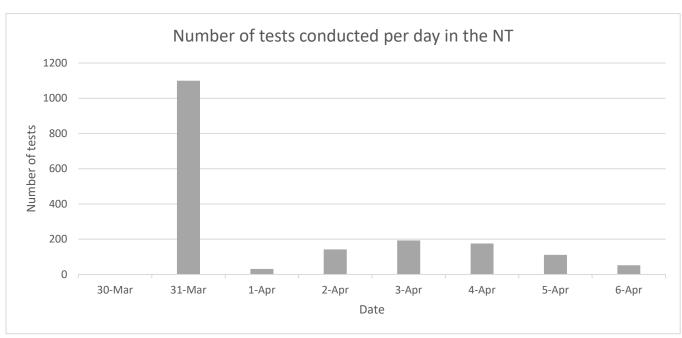
23 March: non-essential businesses in NT close; gatherings limited

24 March: all people entering NT must undergo forced quarantine for 14 days









### Australia (overall)

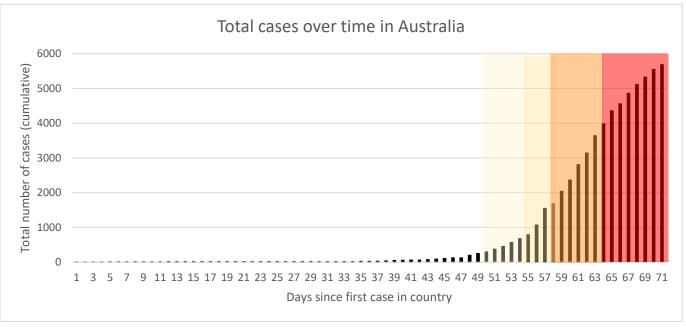
Population	24.6 million
Cases	5687
(total)	
Tests	308,339
(total)	
Deaths	35
(total)	

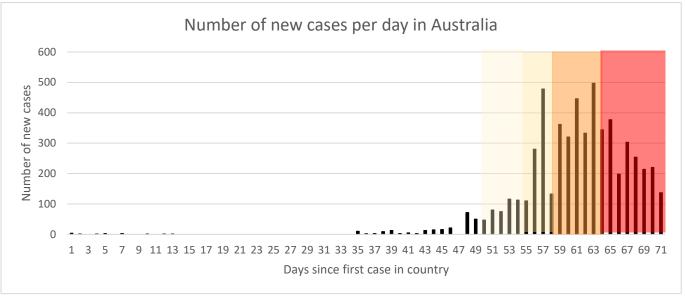
**15 March**: gatherings >500 cancelled; travellers arriving/returning must self-isolate for 14 days

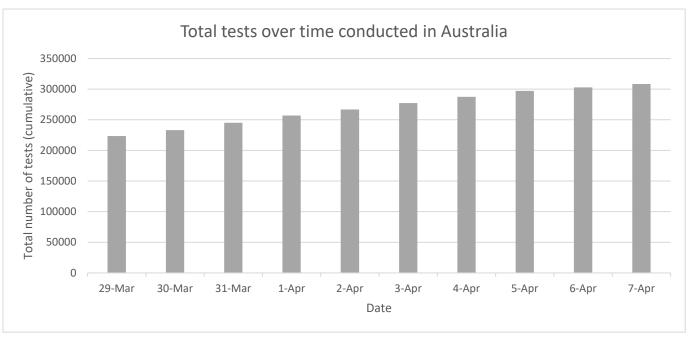
**20 March**: borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

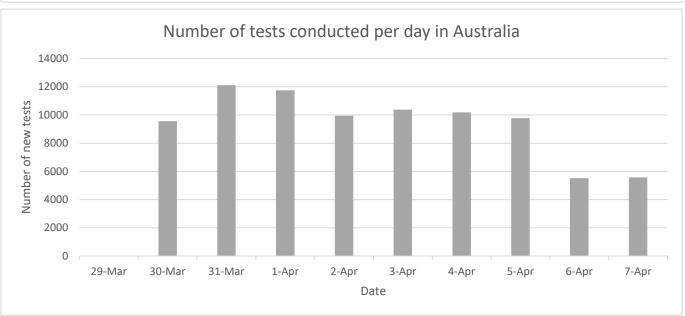
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

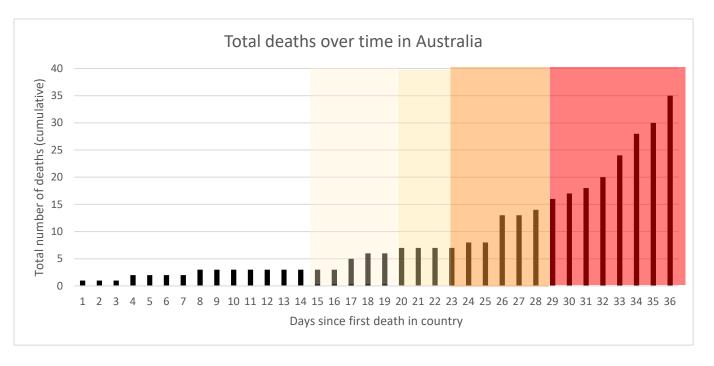
**29 March**: federal government limits gatherings to max. two people; some states adopt this policy.

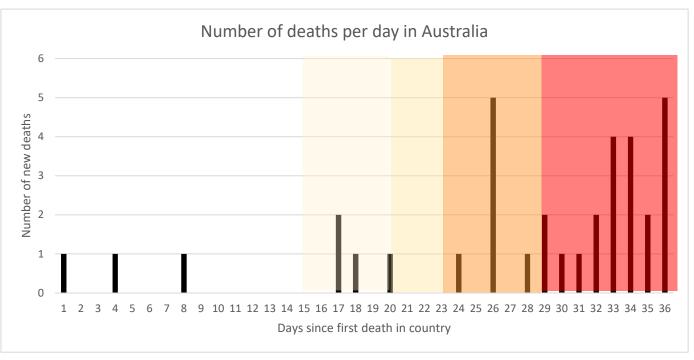








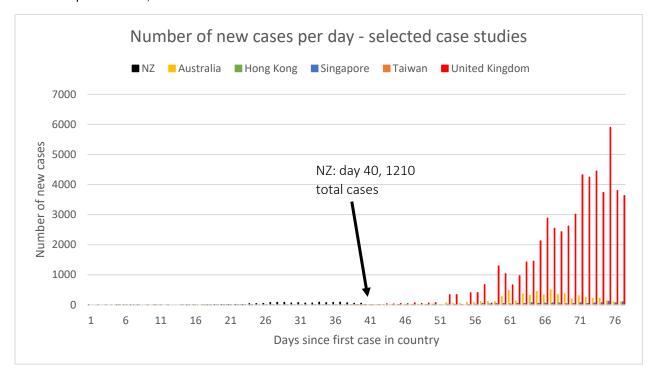


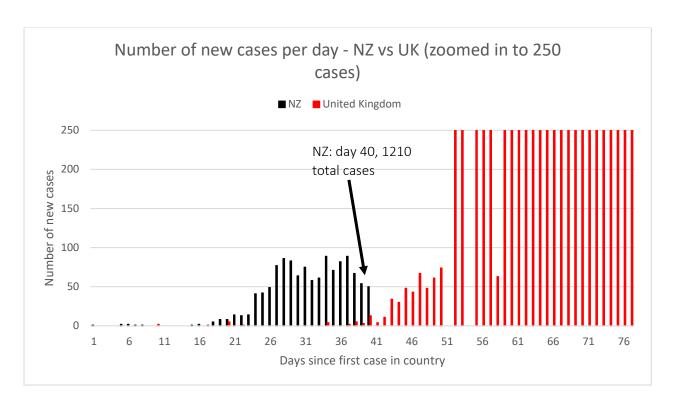


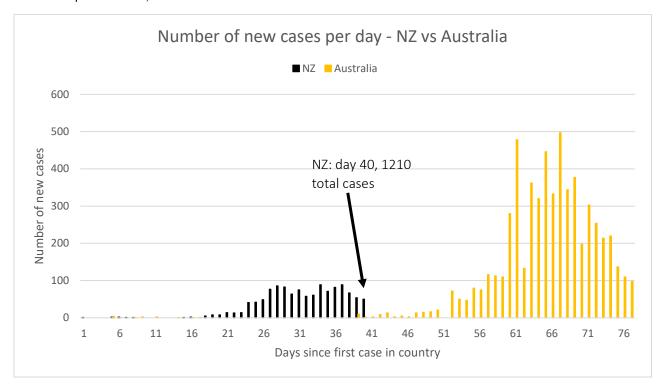
**20 March**: borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

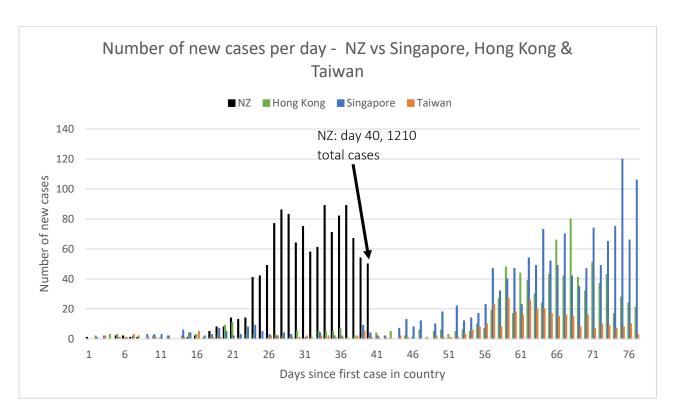
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

**29 March**: federal government limits gatherings to max. two people; some states adopt this policy.

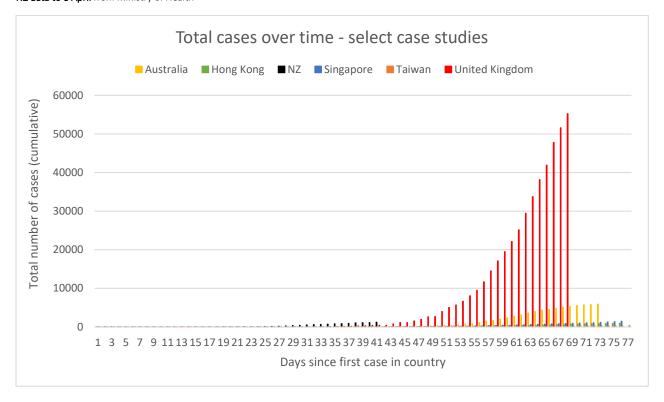


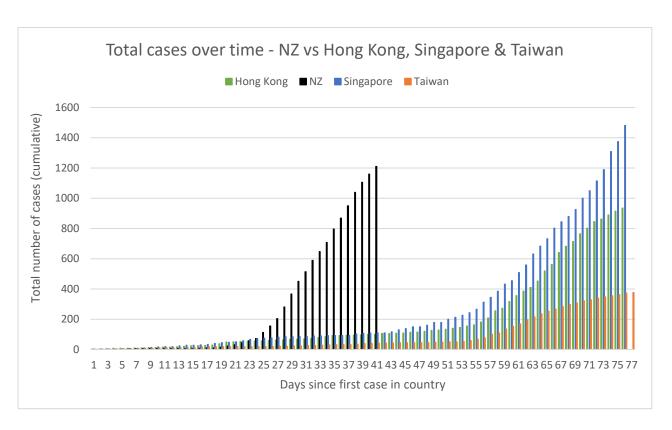






Data up to 6 April 2020 from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>)
NZ data to 8 April from Ministry of Health





Singapore: 1481 confirmed cases, 6 deaths

(population 5.8 million)

**Taiwan**: 376 confirmed cases, 5 deaths

(population 23.8 million)

Hong Kong: 935 confirmed cases, 4 deaths

(population 7.5 million)

**Australia**: 5895 confirmed cases, 35 deaths (population 25.5 million)

**UK**: 55242 confirmed cases, 2921 deaths (population 67.8 million)

NZ: 1210 confirmed cases, 1 death

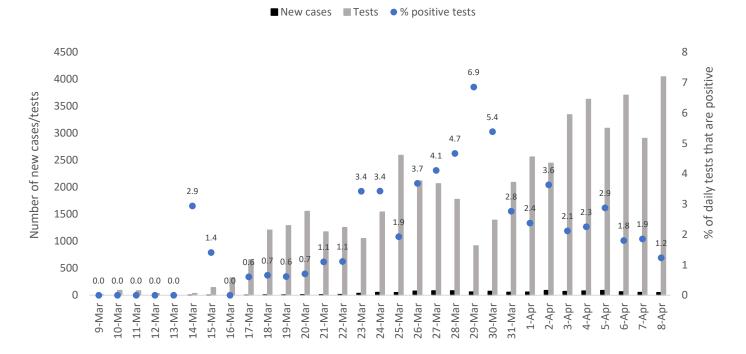
(population 4.8 million)

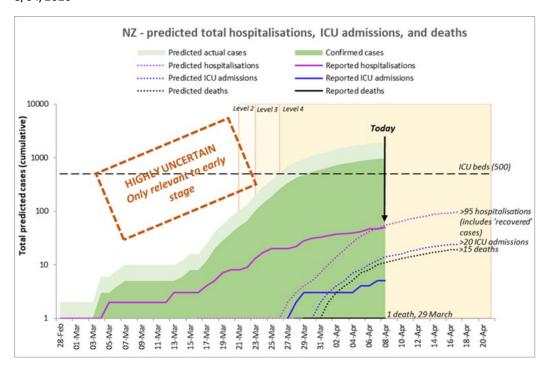
Data up to 6 April 2020 from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>) NZ data to 8 April from Ministry of Health

#### Interventions:

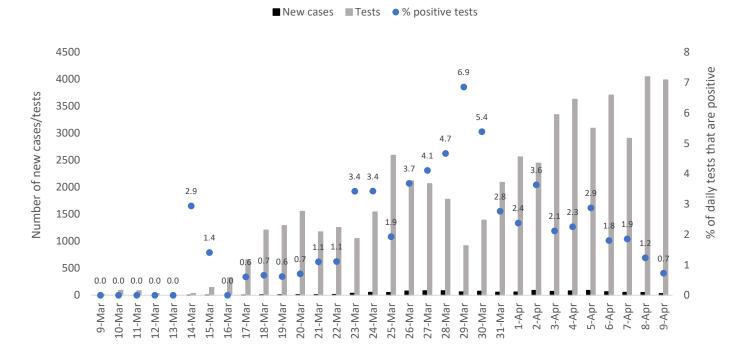
- United Kingdom in lockdown from Monday 23 March
- Australia: 15 March: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days; 20 March: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings; 23 March: most states closed all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only; 29 March: federal government limits gatherings to max. two people; state adopts this policy and issues stay at home directions beginning 31 March
- Singapore currently at Dorscon 'orange' level; stepped up restrictions from midnight Thursday 26 March; from 20 March, all returning residents and short-term visitors has to isolate at home for 14 days
- Hong Kong restricting non-resident entry from Wednesday 25 March; was in partial lockdown for three weeks in January/February but
  lifted restrictions on 2 March, leading to an influx of imported cases; 1 April, the Hong Kong government announced the temporary
  closure of karaoke lounges, nightclubs and mahjong premises; 3 April all pubs and bars across the territory were ordered to close for
  14 days.
- New Zealand in alert level four (lockdown) from midnight Wednesday 25 March

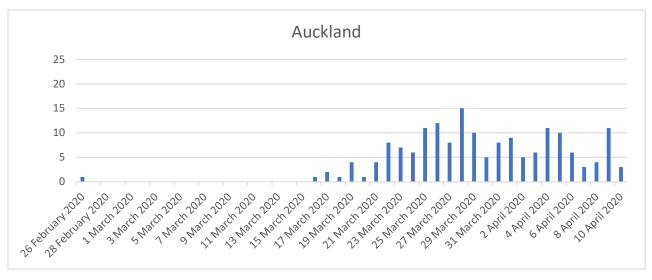
# Daily new COVID-19 cases and number of tests performed in NZ

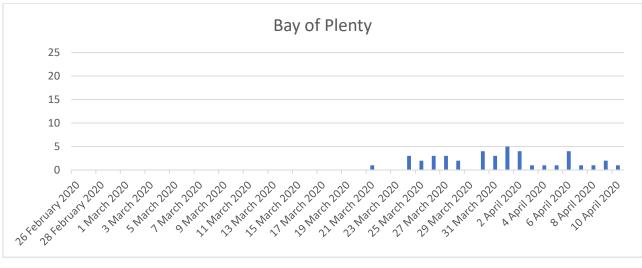


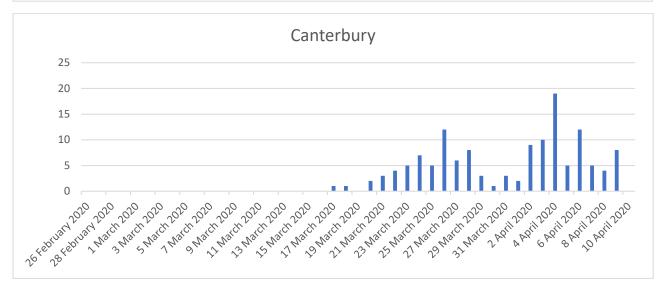


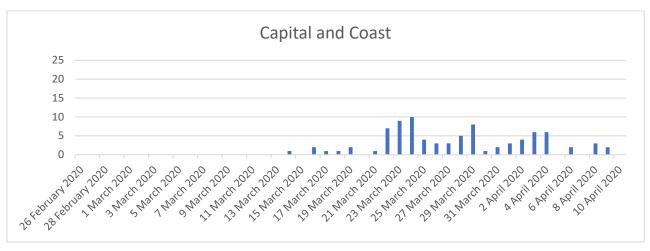
# Daily new COVID-19 cases and number of tests performed in NZ

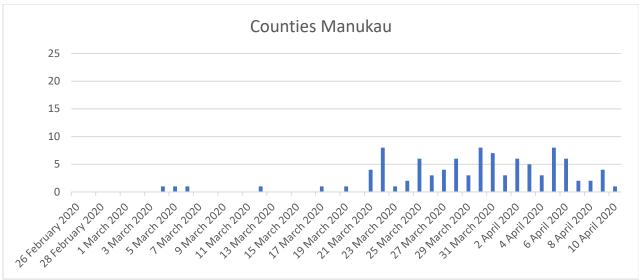


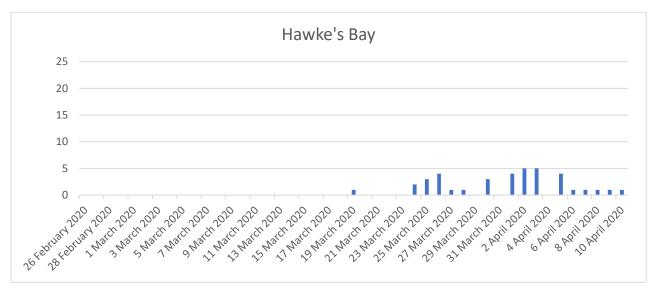


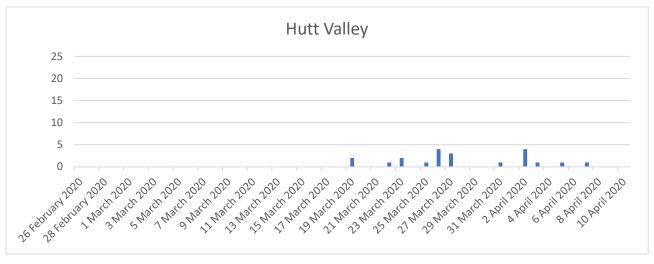


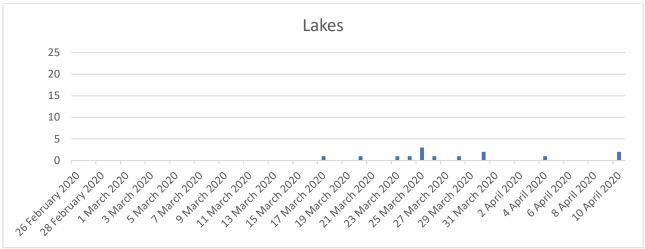


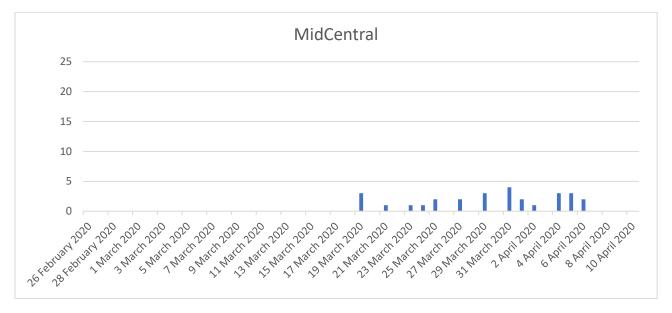


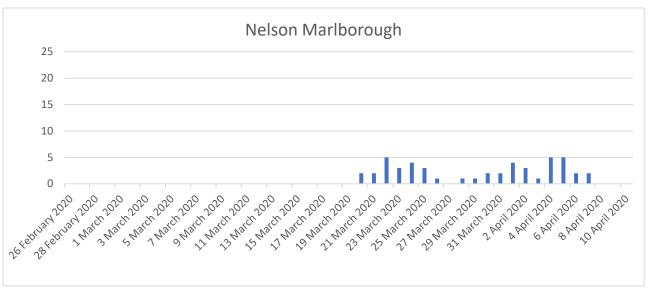


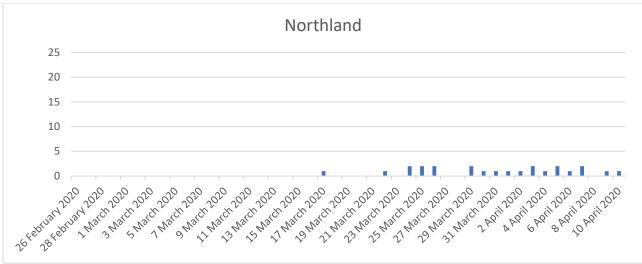


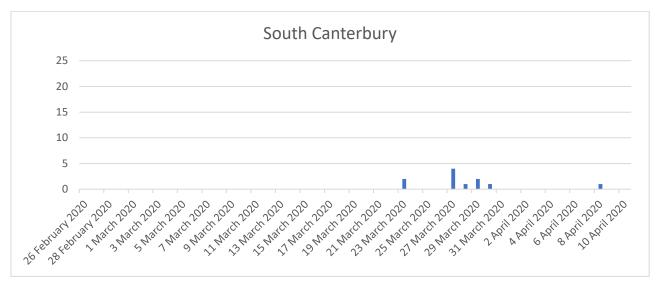


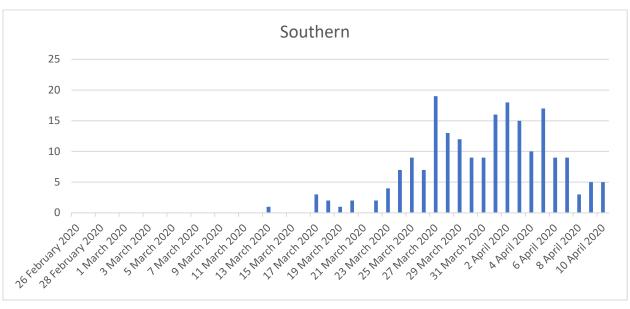


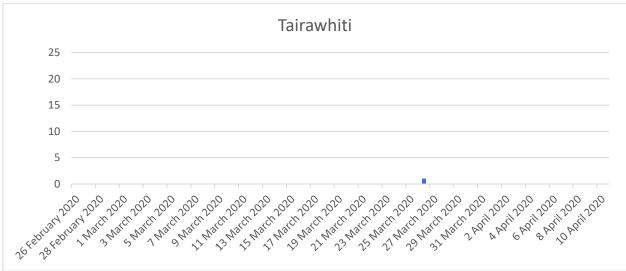


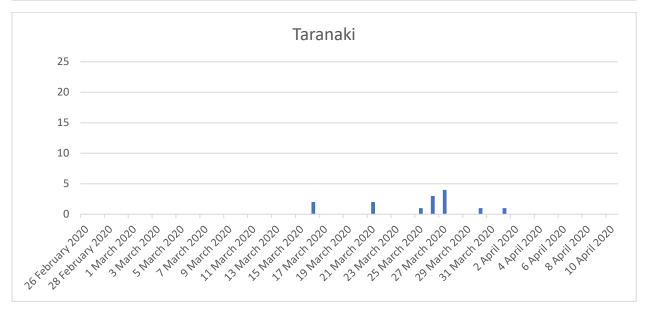


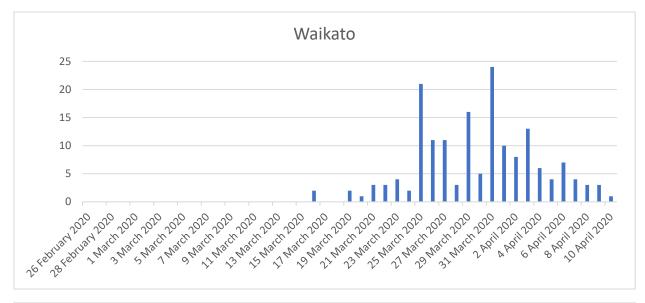


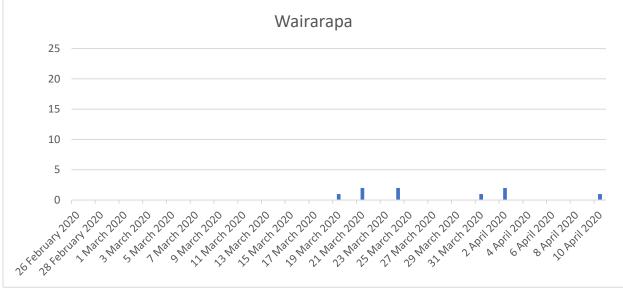


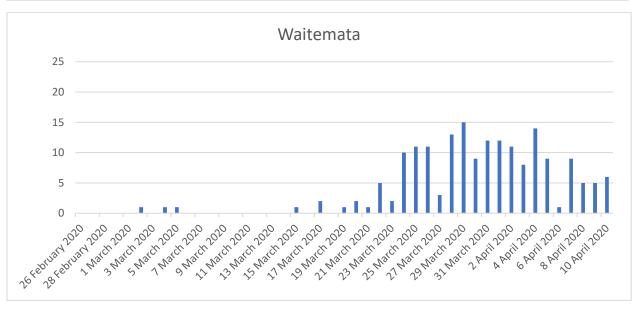


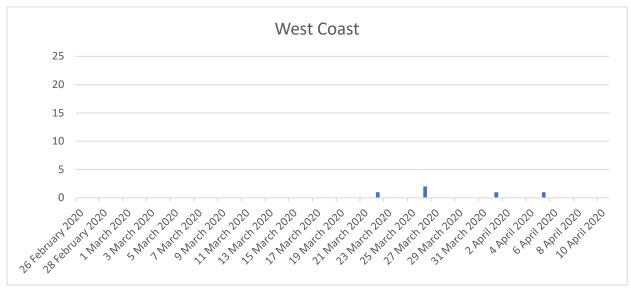


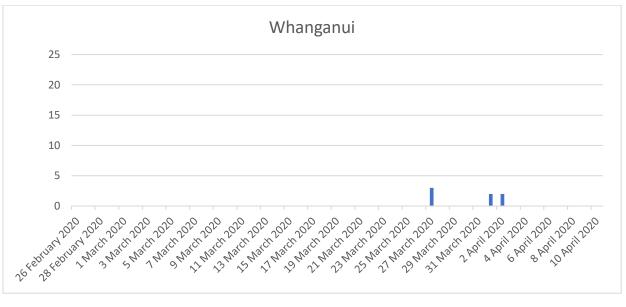




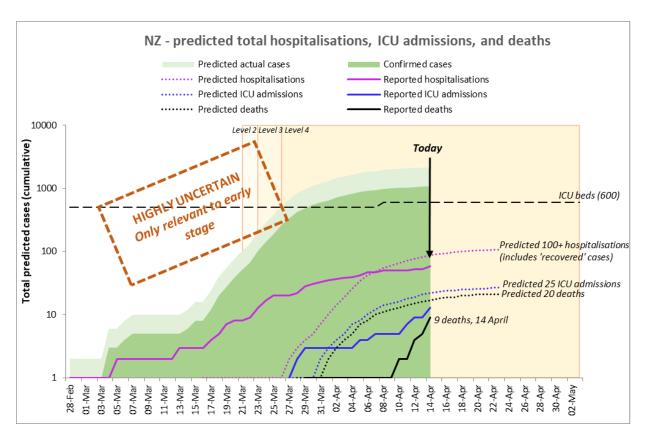








#### 14/04/2020 - HIGHLY UNCERTAIN - ONLY RELEVANT TO EARLY STAGE



Median time from onset of symptoms to ICU admission has been reported as approximately ten days.  $^{12}$  This time has been applied to confirmed NZ cases $^{13}$  with an assumption that 50% of actual cases have been missed $^{14}$ , at a rate of 5% for hospitalisations, 1.25% for ICU admissions $^{15}$  and 1% for deaths $^{16}$ .

Reported hospitalisations are from Ministry of Health data.<sup>17</sup> The hospitalisations are cumulative and have not allowed for those leaving hospital, so the graph is only relevant to the early stage of the response.

<sup>&</sup>lt;sup>12</sup> See <a href="https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext">https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext</a> and <a href="https://www.nejm.org/doi/full/10.1056/NEJMe2002387">https://www.nejm.org/doi/full/10.1056/NEJMe2002387</a>

<sup>&</sup>lt;sup>13</sup> Only **confirmed** cases included here.

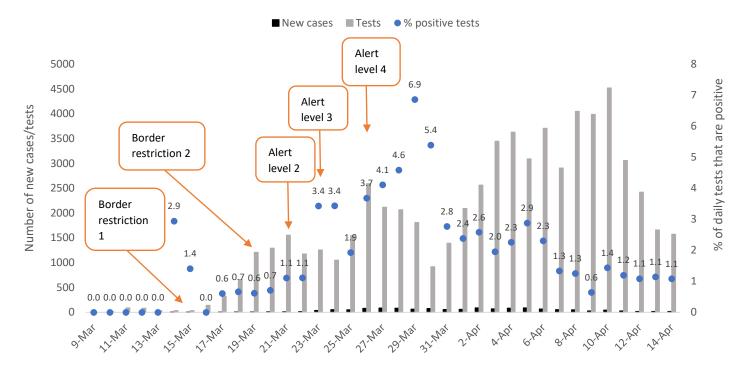
<sup>&</sup>lt;sup>14</sup> We have assumed only 50% of actual cases in NZ have been identified and confirmed.

<sup>&</sup>lt;sup>15</sup> ICU data is approximate – official data not accessed.

<sup>&</sup>lt;sup>16</sup> Figures taken from model assumptions under 'realistic' scenario from 'COVID-19 Modelling Update', 26 March 20, produced by Te Punaha Matatini with support from Orion Health, Contact Shaun Hendy.

<sup>&</sup>lt;sup>17</sup> Hospitalisation date may not align with actual admission date.

# Daily new COVID-19 cases and number of tests performed in NZ



Data up to 12 April from Johns Hopkins University https://github.com/CSSEGISandData/COVID-19

Testing data to 13 April from Covid Live: https://www.covidlive.com.au/ (variable dates available)

Also see: https://www.covid19data.com.au/

#### New South Wales (NSW)

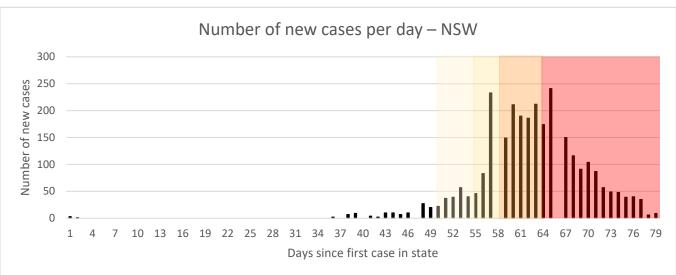
Population	7.5 million
Cases	2863
(total)	
Tests	144,380
(total)	
Deaths	24
(total)	

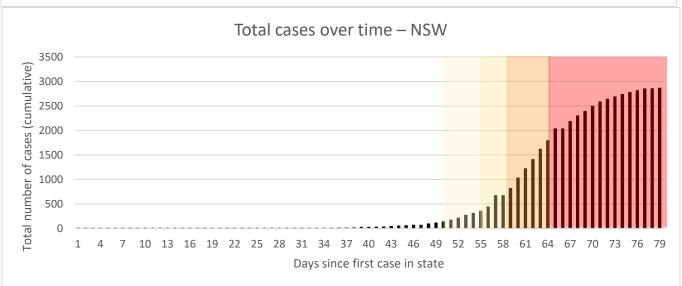
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

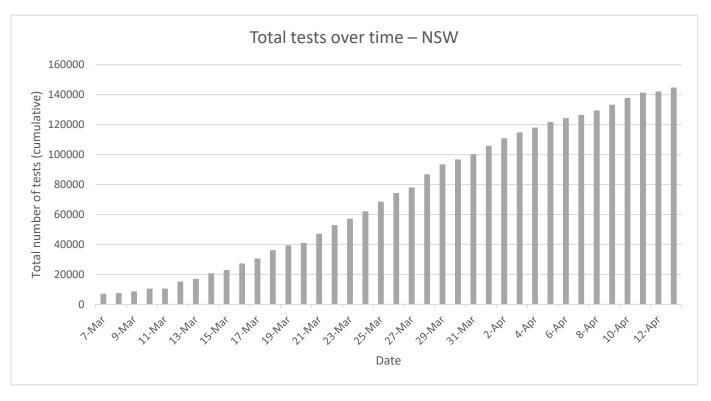
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

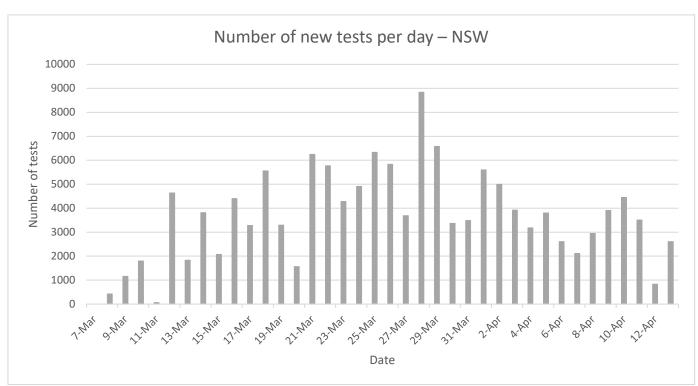
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

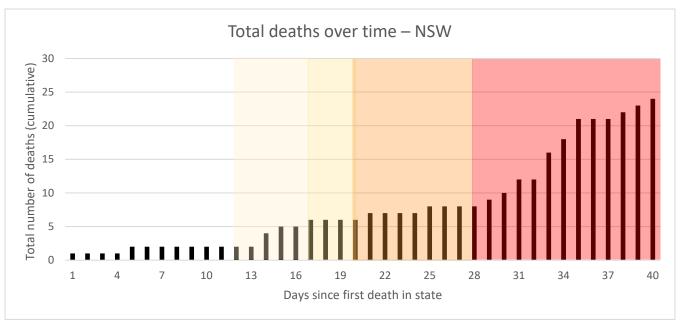
**31 March**: federal government recommends limiting gatherings to max. two people on 29 March; state adopts this policy and issues <u>public health restrictions</u>

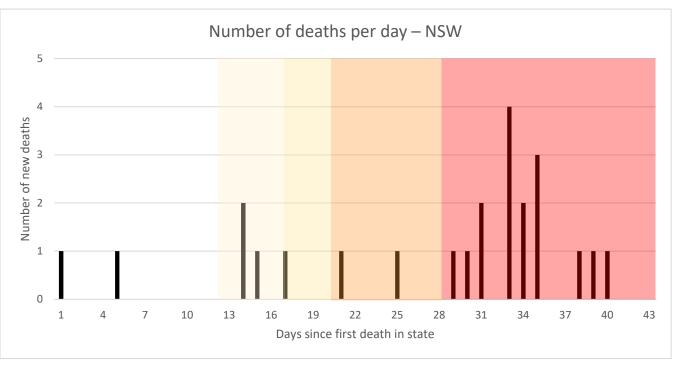












**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

**31 March**: federal government recommends limiting gatherings to max. two people on 29 March; state adopts this policy and issues <u>public health restrictions</u>

#### Victoria (VIC)

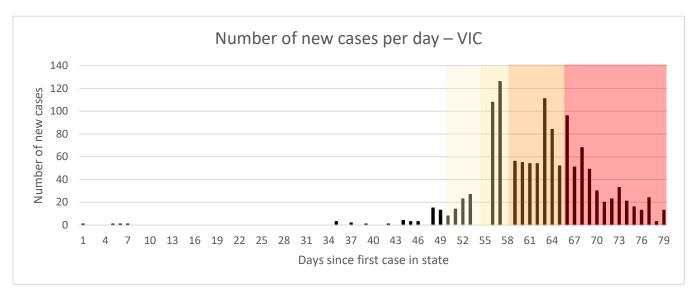
•	
Population	6.4 million
Cases	1281
(total)	
Tests	70,000
(total)	(approx.)
Deaths	14
(total)	

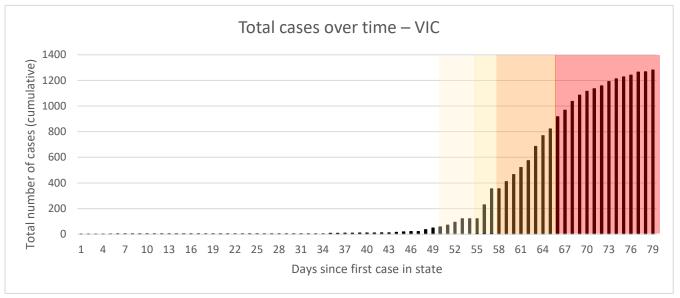
**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

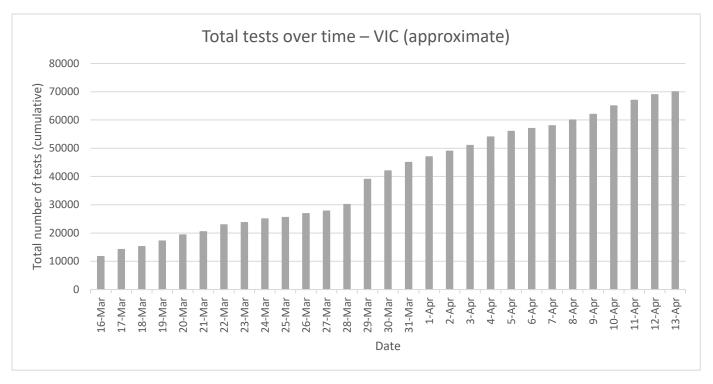
**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

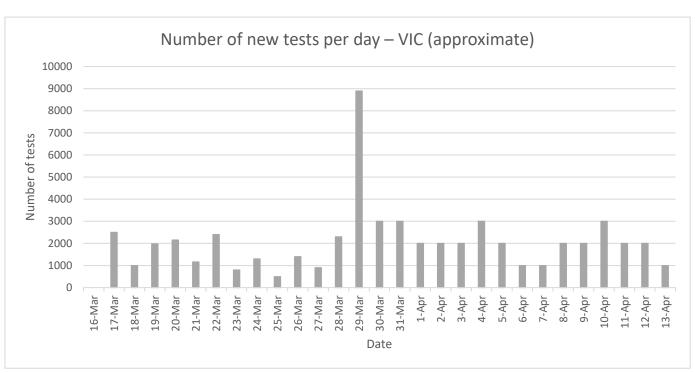
**23 March**: all pubs, bars, nightclubs, cinemas, casinos, indoor sporting venues, entertainment venues, places of worship close; cafes & restaurants delivery only

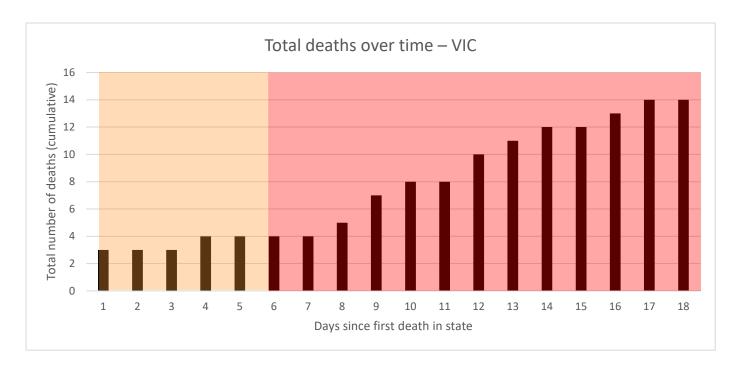
**31 March**: federal government recommends limiting gatherings to max. two people on 29 March; state adopts this policy and issues <u>stay at home directions</u>

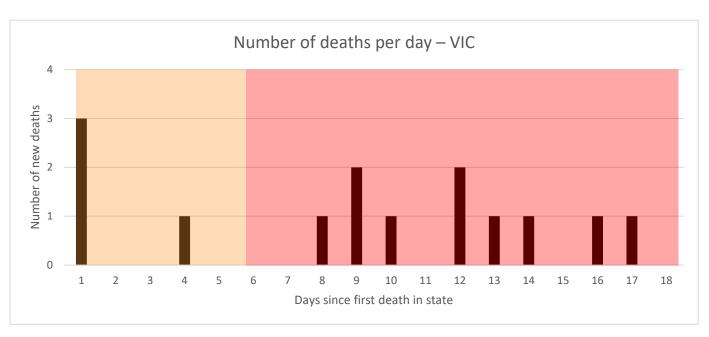












**15 March**: gatherings >500 cancelled; international travellers arriving/returning must self-isolate for 14 days

**20 March**: Aus borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

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**31 March**: federal government recommends limiting gatherings to max. two people on 29 March; state adopts this policy and issues stay at home directions

#### Australia (overall)

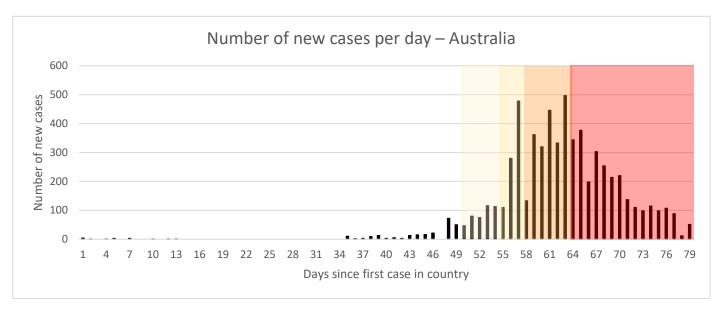
Population	24.6 million
Cases	6366
(total)	
Tests	362,239
(total)	
Deaths	60
(total)	

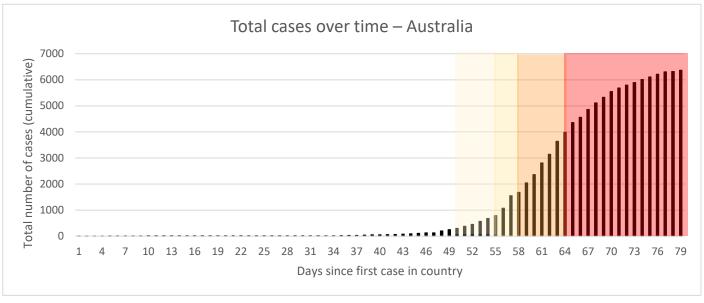
**15 March**: gatherings >500 cancelled; travellers arriving/returning must self-isolate for 14 days

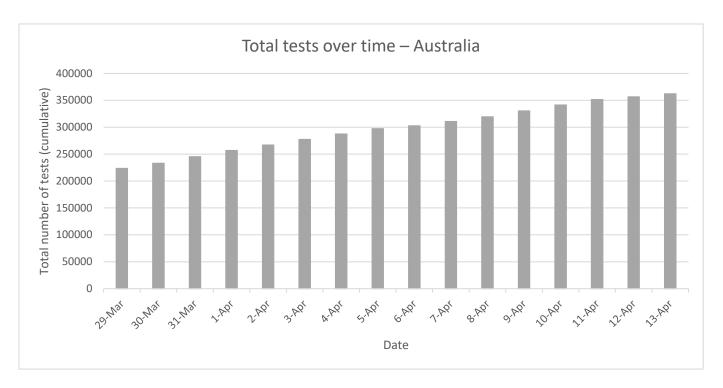
**20 March**: borders closed to all non-residents/non-citizens; minimum of 4sqm per person required for indoor gatherings

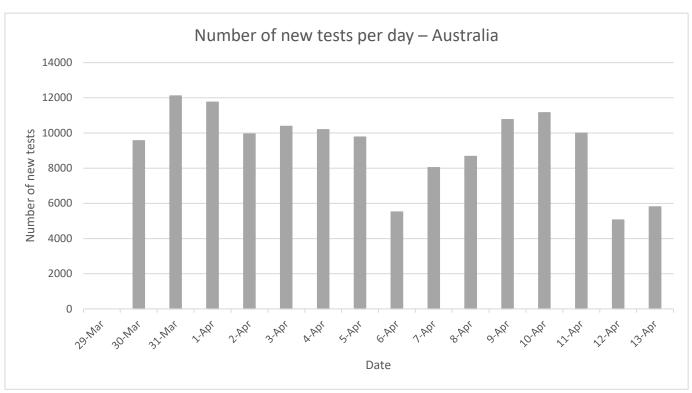
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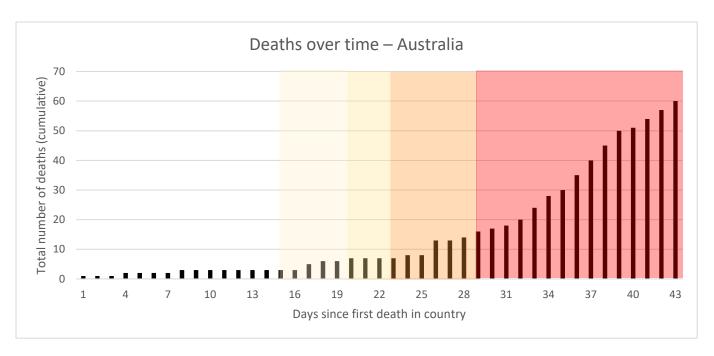
**29 March**: federal government limits gatherings to max. two people; some states adopt this policy.

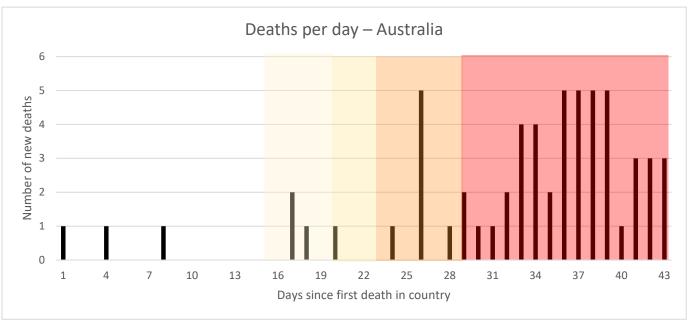












**15 March**: gatherings >500 cancelled; travellers arriving/returning must self-isolate for 14 days

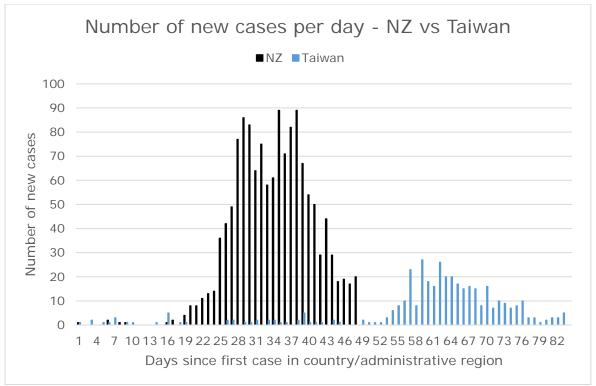
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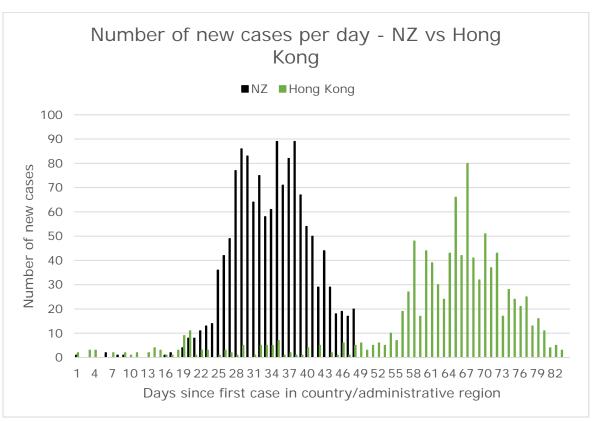
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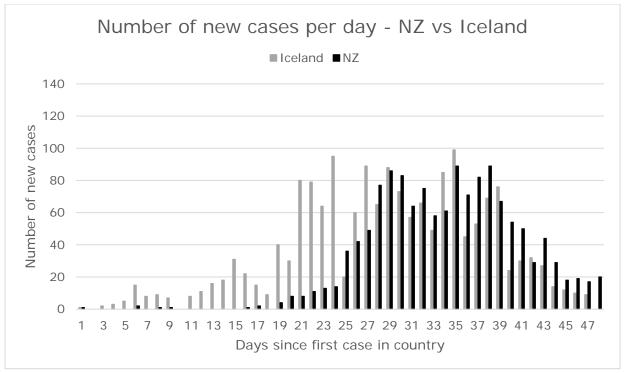
**29 March**: federal government limits gatherings to max. two people; some states adopt this policy.

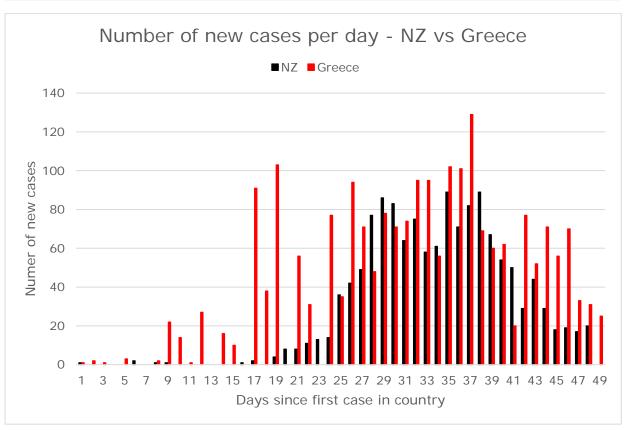
Data up to 13 April via JHU at https://github.com/CSSEGISandData/COVID-19/blob/master/csse\_covid\_19\_data/csse\_covid\_19\_daily\_reports/04-13-2020.csv NZ data up to 14 April from MoH

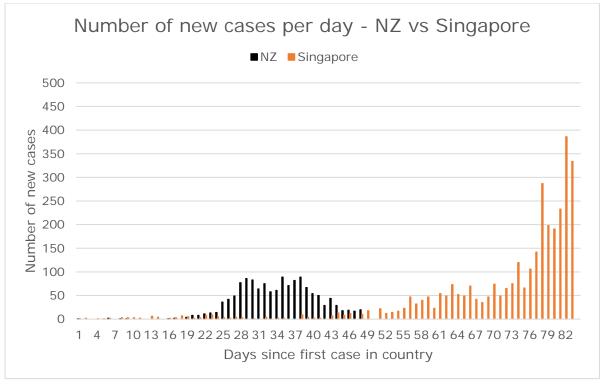
		Cases April	% of popn tested		<b>Deaths April</b>	% of cases that
Country	Population	14	positive		14	died
Italy	60000000	159516		0.27%	20465	12.83%
UK	67800000	88621		0.13%	11329	12.78%
France	65000000	136779		0.21%	14967	10.94%
Spain	47000000	170099		0.36%	17756	10.44%
Sweden	10000000	10948		0.11%	919	8.39%
Denmark	5800000	6318		0.11%	285	4.51%
US	330500000	580619		0.18%	23529	4.05%
Canada	37600000	25680		0.07%	780	3.04%
Germany	83700000	130072		0.16%	3194	2.46%
Norway	5400000	6603		0.12%	134	2.03%
Finland	5500000	3064		0.06%	59	1.93%
Taiwan	23800000	393		0.00%	6	1.53%
Croatia	4100000	1650		0.04%	25	1.52%
Australia	25500000	6351		0.02%	61	0.96%
NZ	4800000	1366		0.03%	9	0.66%
Hong						
Kong	7500000	1009		0.01%	4	0.40%
Singapore	5800000	2918		0.05%	9	0.31%

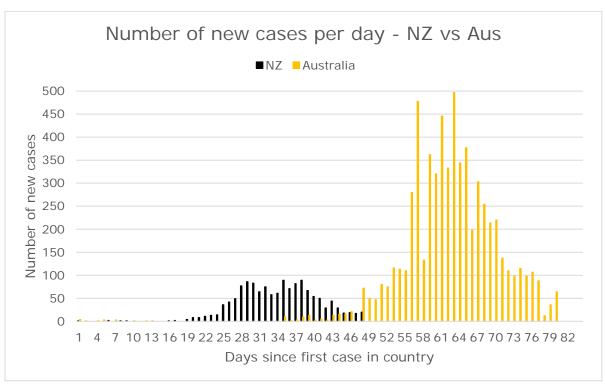




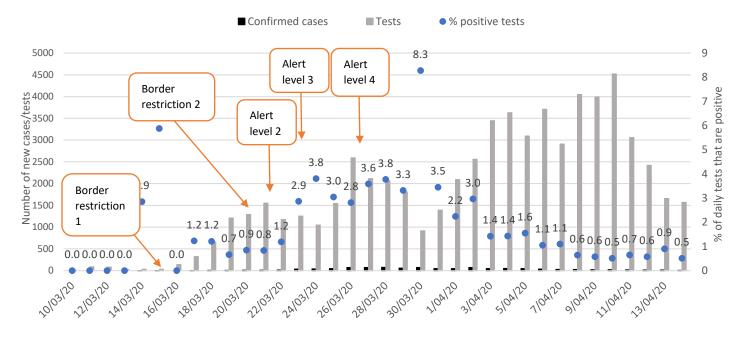








## NZ daily new confirmed COVID-19 cases and number of tests



Date results reported

Note: this graph only includes confirmed cases (not probable) and the % positive tests is the % of tests performed that were confirmed cases.

	Total			Percent
Country	cases	Tests	Test/m	+
<u>Bhutan</u>	5	8,107	10,507	0.06%
<u>Venezuela</u>	227	299,714	10,540	
		222.252	0.110	0.08%
<u>Vietnam</u>	268	206,253	2,119	0.13%
Nepal	31	15,800	542	0.20%
<u>Botswana</u>	15	3,602	1,532	0.42%
<u>Uganda</u>	55	11,101	243	0.50%
New Caledonia	18	3,399	11,906	0.5070
				0.500/
Taiwan	398	52,445	2,202	0.53%
<u>Taiwan</u>	7	913	196	0.76%
<u>Mauritania</u>	,	010	100	0.77%
Hong Kong	1,024	131,786	17,579	
				0.78%
<u>UAE</u>	6,302	767,000	77,550	0.82%
Maldives	35	3,714	6,871	0.94%
<u>Zimbabwe</u>	25	2,626	177	0.95%
Greenland	11	1,043	18,372	0.5570
<u></u>				1.05%
<u>Uzbekistan</u>	1,490	136,000	4,063	
	407	44.054	05.705	1.10%
<u>Brunei</u>	137	11,254	25,725	1.22%
<u>Ghana</u>	834	60,916	1,960	1.37%
Laos	19	1,318	181	1.44%
<u>Ethiopia</u>	105	6,890	60	1.52%
<u>Azerbaijan</u>	1,373	86,607	8,542	
	4.645	400.070	E 272	1.59%
Kazakhstan	1,615	100,878	5,373	4 500/
A	6,577	406,510	15,942	1.60%
<u>Australia</u>	1,422	79,078	16,399	1.62%
New Zealand	1,722	73,070	10,000	1.000/
<u>Malta</u>	426	23,253	52,663	1.80%
<u>El Salvador</u>	190	10,191	1,571	1.83%
LI Salvadoi		,	,	1.86%
Kyrgyzstan	506	26,147	4,008	1.00/0
	44		40.000	1.94%
S. Korea	10,653	546,463	10,659	1.95%
Togo	84	4,191	506	2.00%
Russia	36,793	1,831,892	12,553	2.01%
<u>Jordan</u>	413	20,500	2,009	2.01%
<u>Latvia</u>	712	34,697	18,395	2.05%
<u>Lithuania</u>	1,239	58,816	21,605	2.11%

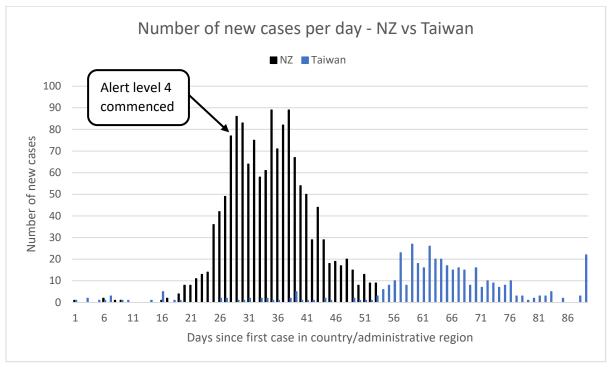
Cambodia	122	5,768	345	
	31	1,450	442	2.12%
Mongolia	1,773	82,568	48,524	2.14%
<u>Bahrain</u>	1,773	•	·	2.15%
Rwanda		6,237	482	2.31%
Cyprus	761	32,284	26,739	2.36%
<u>Myanmar</u>	98	4,065	75	2.41%
<u>Palestine</u>	418	17,329	3,397	2.41%
Kenya	262	10,784	201	2.43%
Zambia	57	2,191	119	2.60%
Slovakia	1,089	40,953	7,501	2.66%
Thailand	2,733	100,498	1,440	2.72%
Belize	18	651	1,637	2.76%
Iraq	1,513	53,955	1,341	2.80%
South Africa	3,034	108,021	1,821	2.0070
<u> </u>				2.81%
Gambia	9	316	131	2.85%
Guinea-Bissau	46	1,500	762	2.03/0
<u> </u>				3.07%
Faeroe Islands	184	5,981	122,403	3.0770
				3.08%
Eswatini	22	714	615	3.08%
Namibia	16	499	196	3.21%
Slovenia	1,317	40,580	19,520	3.25%
Guatemala	235	7,200	402	3.26%
<u>Lebanon</u>	672	20,225	2,963	3.32%
Bulgaria	878	26,417	3,802	3.32%
Mauritius	325	9,755	7,670	3.33%
Falkland	11	319	91,667	3.3370
<u>Islands</u>				3.45%
Mozambique	35	952	30	3.68%
<u>Estonia</u>	1,512	39,605	29,856	3.82%
Cuba	986	25,309	2,234	3.90%
Czechia	6,606	162,533	15,177	4.06%
Malawi	17	417	22	4.08%
Paraguay	202	4,950	694	4.08%
Hungary	1,834	43,901	4,544	4.18%
Papua New	7	167	19	
<u>Guinea</u>				4.19%
Greece	2,235	53,290	5,113	4.19%
French	55	1,302	4,635	
<u>Polynesia</u>				4.22%
<u>Iceland</u>	1,760	41,091	120,416	4.28%
<u>Uruguay</u>	508	11,749	3,382	4.32%
Saint Lucia	15	344	1,873	4.36%
<u>Poland</u>	8,742	192,960	5,098	4.53%
<u>Dominica</u>	16	345	4,793	4.64%
<u>India</u>	15,722	335,123	243	4.69%

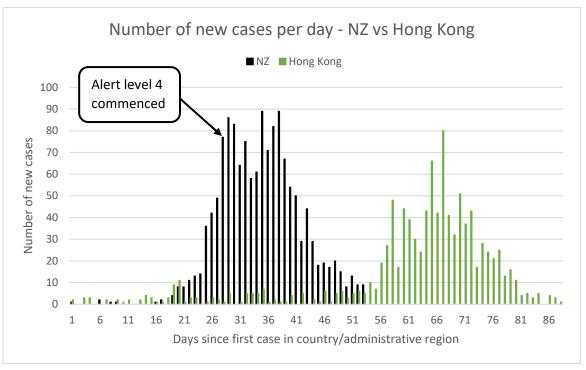
	44	200	4 740	
Curaçao	7.026	286	1,743	4.90%
Norway	7,036	139,668	25,763	5.04%
Madagascar	120	2,357	85	5.09%
<u>Malaysia</u>	5,305	100,794	3,114	5.26%
<u>Sri Lanka</u>	254	4,768	223	5.33%
<u>Belarus</u>	4,779	86,813	9,187	5.50%
<u>Egypt</u>	3,032	55,000	537	5.51%
Saudi Arabia	8,274	150,000	4,309	5.52%
<u>Tunisia</u>	866	14,640	1,239	5.92%
Saint Kitts and Nevis	14	234	4,399	5.98%
Colombia	3,621	59,002	1,160	6.14%
<u>Burundi</u>	5	80	7	6.25%
Singapore	5,992	94,796	16,203	6.32%
Costa Rica	655	10,138	1,990	
<u>Canada</u>	33,383	516,216	13,677	6.46%
Finland	3,681	55,600	10,035	6.47%
	49	707	103	6.62%
<u>Libya</u>	96	1,358	12,719	6.93%
<u>Aruba</u>	13,265	187,250	21,634	7.07%
<u>Israel</u>	13,265			7.08%
Gibraltar		1,859	55,178	7.10%
<u>Barbados</u>	75	1,000	3,480	7.50%
Bosnia and Herzegovina	1,268	16,868	5,141	7.52%
<u>Nigeria</u>	542	7,153	35	7.58%
Georgia	388	5,027	1,260	7.72%
Denmark	7,242	91,437	15,786	7.92%
Montenegro	307	3,874	6,168	7.92%
Pakistan	7,638	92,548	419	8.25%
Germany	143,342	1,728,357	20,629	8.29%
Qatar	5,008	60,139	20,874	8.33%
Austria	14,671	175,932	19,534	8.34%
Portugal	19,685	235,878	23,133	8.35%
Croatia	1,832	21,647	5,273	8.46%
Trinidad and	114	1,320	943	0.40/0
<u>Tobago</u>				8.64%
Cayman Islands	61	702	10,681	8.69%
Liechtenstein	79	900	23,605	8.78%
<u>Haiti</u>	44	498	44	8.84%
Argentina	2,758	30,942	685	8.91%
Chile	9,730	108,891	5,696	8.94%
Japan	10,296	111,325	880	9.25%
Equatorial	79	854	609	
Guinea				9.25%
Romania	8,418	90,991	4,730	9.25%
<u>Ukraine</u>	5,106	52,534	1,201	9.72%
<u>Djibouti</u>	732	7,486	7,577	9.78%
Bangladesh	2,144	21,307	129	10.06%

Macedonia         10.12%           Albania         548         5,311         1,846         10.32%           Armenia         1,248         11,796         3,981         10.58%           Peru         14,420         135,895         4,122         10.61%           Luxembourg         3,537         33,252         53,120         10.64%           Jamaica         163         1,516         512         10.75%           Philippines         6,087         56,048         511         10.86%           Isle of Man         297         2,414         28,889         12.30%           Switzerland         27,404         216,400         25,004         12.66%           Turks and Caicos         11         83         2,144         23,889         12.30%           Rialy         175,925         1,305,833         21,598         13,47%         13.55%           Turks and Caicos         4715         195         13.55%         13.47%         13.75%           Italy         175,925         1,305,833         21,598         13.47%         13.75%           Turks and Caicos         42,329         598,933         7,101         13.75%           St. Vincent         4					
Albania         548         5,311         1,846         10.32%           Armenia         1,248         11,796         3,981         10.58%           Peru         14,420         135,895         4,122         10.61%           Luxembourg         3,537         33,252         53,120         10.64%           Jamaica         163         1,516         512         10.75%           Philippines         6,087         56,048         511         10.86%           Isle of Man         297         2,414         28,389         12.30%           Switzerland         27,404         216,400         25,004         12.66%           Turks and         11         83         2,144         23,389         12.30%           Miger         639         4,715         195         13.47%         13.55%         14.78         13.47%           Niger         639         4,715         195         13.55%         13.75%         13.55%         13.75%         13.75%         13.75%         13.75%         13.75%         13.75%         13.75%         13.75%         14.11%         13.75%         14.11%         13.75%         14.11%         13.75%         14.11%         13.75%         14.11% <td></td> <td>1,170</td> <td>11,556</td> <td>5,547</td> <td></td>		1,170	11,556	5,547	
Armenia 1,248 11,796 3,981 10.58% Peru 14,420 135,895 4,122 10.61% 10.64% 10.64% 10.64% 10.64% 10.64% 10.65	<u>Macedonia</u>				10.12%
14,420	<u>Albania</u>				10.32%
Luxembourg   3,537   33,252   53,120   10.64%     Jamaica   163   1,516   512   10.75%     Philippines   6,087   56,048   511   10.86%     Isle of Man   297   2,414   28,389   12,30%     Switzerland   27,404   216,400   25,004   12.66%     Turks and   11   83   2,144     Caicos   13.25%     Italy   175,925   1,305,833   21,598   13.47%     Niger   639   4,715   195   13.55%     Turkey   82,329   598,933   7,101     St. Vincent   Grenadines   13.79%     Bolivia   493   3,569   306   13.81%     Mayotte   254   1,800   6,598   14.11%     Mexico   6,875   48,365   375   14.21%     Channel   1484   3,320   19,095     Islands   6,248   39,422   144   15.85%     Bermuda   83   552   8,863   15.04%     Grenada   14   92   818   15.22%     Indonesia   6,248   39,422   144   15.85%     Ireland   14,758   90,646   18,358   16.28%     Serbia   5,994   36,028   4,123   16.64%     Sweden   13,822   74,600   7,387   18.53%     Gabon   108   572   257   18.88%     Honduras   457   2,396   242   19.07%     Morocco   2,685   13,689   371   19.61%     USA   737,217   3,711,141   11,212   19.86%     Motherlands   31,589   154,911   9,041   20.39%     Spain   191,726   930,230   19,896   20.61%     Sao Tome and   Principe   21.05%     Guyana   63   283   360   22.26%     Moldova   2,378   9,848   2,441   24,15%     Belgium   37,183   145,997   12,597   25,47%     San Marino   455   1,605   47,302   28.35%     Caribbean   3 ,008   14,373   1,325     Dominican   4,335   14,373   1,325	<u>Armenia</u>	1,248	11,796	3,981	10.58%
Samaica   163   1.516   512   10.75%	<u>Peru</u>	14,420	135,895	4,122	10.61%
Shinked   Shin	Luxembourg	3,537	33,252	53,120	10.64%
See of Man   297   2,414   28,389   12,30%   12,66%   12,66%   12,66%   12,66%   13,25%   1	<u>Jamaica</u>	163	1,516	512	10.75%
Switzerland         27,404         216,400         25,004         12.50%           Turks and Caicos         11         83         2,144         12.66%           Italy         175,925         1,305,833         21,598         13.47%           Niger         639         4,715         195         13.55%           Turkey         82,329         598,933         7,101         13.75%           St. Vincent         12         87         784         13.75%           Bolivia         493         3,569         306         13.81%           Mayotte         254         1,800         6,598         14.11%           Mexico         6,875         48,365         375         14.21%           Channel         484         3,320         19,095         14.21%           Bermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%	<u>Philippines</u>	6,087	56,048	511	10.86%
Turks and Caicos  Italy 175,925 1,305,833 21,598 13.47% Niger 639 4,715 195 13.55% Turkey 82,329 598,933 7,101 13.75% St. Vincent Grenadines  Bolivia 493 3,569 306 13.81% Mayotte 254 1,800 6,598 14.11% Mexico 6,875 48,365 375 14.21% Channel Islands Bermuda 83 552 8,863 15.04% Grenada 14 92 818 15.22% Indonesia 6,248 39,422 144 15.85% Ireland 14,758 90,646 18,358 16.28% Serbia 5,994 36,028 4,123 16.64% Sweden 13,822 74,600 7,387 18.53% Gabon 108 572 257 18.88% Honduras 457 2,396 242 19.07% Morocco 2,685 13,689 371 19.61% OLSA 737,217 3,711,141 11,212 19.86% Netherlands 31,589 154,911 9,041 20.39% Spain 191,726 930,230 19,896 20.61% Sao Tome and Principe Guyana 63 283 360 22.26% Panama 4,210 18,559 4,301 22.68% Moldova 2,378 9,848 2,441 24.15% Iran 80,868 30,032 1,597 25.47% San Marino 455 1,605 47,302 28.35% Ecuador 9,022 30,922 1,753 29.18% Only only only only only only only only o	Isle of Man	297	2,414	28,389	12.30%
Caicos         13.25%           Italy         175,925         1,305,833         21,598         13.47%           Niger         639         4,715         195         13.55%           Turkey         82,329         598,933         7,101         13.75%           St. Vincent         12         87         784         784           Grenadines         13.79%         306         13.81%           Bolivia         493         3,569         306         13.81%           Mayotte         254         1,800         6,598         14.11%           Mexico         6,875         48,365         375         14.21%           Channel         484         3,320         19,095         18           Islands         15.04%         15.04%         15.04%         15.04%           Grenada         14         92         818         15.04%         15.22%           Ireland         14,758         90,646         18,358         16.28%         15.85%         16.28%         16.28%         16.28%         16.28%         16.28%         16.28%         16.28%         18.53%         18.53%         18.53%         18.53%         18.53%         19.07%         18.53%	Switzerland	27,404	216,400	25,004	12.66%
Taly	Turks and	11	83	2,144	
Niger 639 4,715 195 13.55% Turkey 82,329 598,933 7,101 13.75%  St. Vincent 12 87 784  Grenadines 13.79%  Bolivia 493 3,569 306 13.81%  Mayotte 254 1,800 6,598 14.11%  Mexico 6,875 48,365 375 14.21%  Channel 484 3,320 19,095 18lands  Bermuda 83 552 8,863 15.04%  Grenada 14 92 818 15.22%  Indonesia 6,248 39,422 144 15.85%  Ireland 14,758 90,646 18,358 16.28%  Serbia 5,994 36,028 4,123 16.64%  Sweden 13,822 74,600 7,387 18.53%  Gabon 108 572 257 18.88%  Honduras 457 2,396 242 19.07%  Morocco 2,685 13,689 371 19.61%  USA 737,217 3,711,141 11,212 19.86%  Netherlands 31,589 154,911 9,041 20.39%  Spain 191,726 930,230 19,896 20.61%  Sao Tome and Principe 21.05%  Guyana 63 283 360 22.26%  Panama 4,210 18,559 4,301 22.68%  Moldova 2,378 9,848 2,441 24.15%  Belgium 37,183 145,997 12,597 25.47%  San Marino 455 1,605 47,302 28.35%  Ecuador 9,022 30,922 1,753 29.18%  Dominican 4,335 14,373 1,325	Caicos				13.25%
Turkey 82,329 598,933 7,101 13.75% St. Vincent Grenadines 93,569 306 13.81% Mayotte 254 1,800 6,598 14.11% Mexico 6,875 48,365 375 14.21% 15.85% 15.04% Grenada 83 552 8,863 15.04% 15.85% 16.28% 16.2	<u>Italy</u>	175,925	1,305,833	21,598	13.47%
St. Vincent Grenadines         12         87         784           Bolivia         493         3,569         306           Mayotte         254         1,800         6,598         14.11%           Mexico         6,875         48,365         375         14.21%           Channel Islands         484         3,320         19,095         14.21%           Eermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Sao Tome and Principe	Niger	639	4,715	195	13.55%
13.79%   13.81%   13.81%   13.81%   13.81%   13.81%   13.81%   14.11%   14.21%   1	Turkey	82,329	598,933	7,101	13.75%
Bolivia         493         3,569         306         13,81%           Mayotte         254         1,800         6,598         14,11%           Mexico         6,875         48,365         375         14,21%           Channel Islands         484         3,320         19,095         14,21%           Bermuda         83         552         8,863         15,04%           Grenada         14         92         818         15,22%           Indonesia         6,248         39,422         144         15,85%           Ireland         14,758         90,646         18,358         16,28%           Serbia         5,994         36,028         4,123         16,64%           Sweden         13,822         74,600         7,387         18,53%           Gabon         108         572         257         18,88%           Honduras         457         2,396         242         19,07%           Morocco         2,685         13,689         371         19,61%           USA         737,217         3,711,141         11,212         19,86%           Spain         191,726         930,230         19,896         20,61%	St. Vincent	12	87	784	
Mayotte         254         1,800         6,598         14.11%           Mexico         6,875         48,365         375         14.21%           Channel         484         3,320         19,095           Islands         14.58%         15.04%           Bermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,	<u>Grenadines</u>				13.79%
Mexico         6,875         48,365         375         14.21%           Channel Islands         484         3,320         19,095         14.58%           Bermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         4,301         22.68%	<u>Bolivia</u>	493	3,569	306	13.81%
Channel Islands         484         3,320         19,095         14.58%           Bermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         22.26%         22.26%           Panama         4,210         18,559         4,301         22.68% </td <td>Mayotte</td> <td>254</td> <td>1,800</td> <td>6,598</td> <td>14.11%</td>	Mayotte	254	1,800	6,598	14.11%
Sands   14.58%   Bermuda   83   552   8,863   15.04%   Grenada   14   92   818   15.22%   Indonesia   6,248   39,422   144   15.85%   Ireland   14,758   90,646   18,358   16.28%   Serbia   5,994   36,028   4,123   16.64%   Sweden   13,822   74,600   7,387   18.53%   Gabon   108   572   257   18.88%   Honduras   457   2,396   242   19.07%   Morocco   2,685   13,689   371   19.61%   19.86%   Netherlands   31,589   154,911   9,041   20.39%   Spain   191,726   930,230   19,896   20.61%   Sao Tome and   4   19   87   Principe   21.05%   Guyana   63   283   360   22.26%   Panama   4,210   18,559   4,301   22.68%   Moldova   2,378   9,848   2,441   24.15%   Iran   80,868   330,137   3,931   24.50%   24.81%   Belgium   37,183   145,997   12,597   25.47%   San Marino   455   1,605   47,302   28.35%   Ecuador   9,022   30,922   1,753   29.18%   Dominican   4,335   14,373   1,325   Dominican   1,325   Dominican   1,325   Dominican	Mexico	6,875	48,365	375	14.21%
Bermuda         83         552         8,863         15.04%           Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         4         19         87           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         24.50%           Mol	Channel	484	3,320	19,095	
Grenada         14         92         818         15.22%           Indonesia         6,248         39,422         144         15.85%           Ireland         14,758         90,646         18,358         16.28%           Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         4         19         87           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.50% <t< td=""><td><u>Islands</u></td><td></td><td></td><td></td><td>14.58%</td></t<>	<u>Islands</u>				14.58%
Indonesia   6,248   39,422   144   15.85%   16.28%   16.28%   16.64%   18,358   16.28%   16.64%   18,358   16.28%   16.64%   18,358   16.64%   18,358   16.64%   18,358   16.64%   18,358   16.64%   18,358   16.64%   18,358   16.64%   18,358   16.64%   18,35%   18,53%   18,53%   18,53%   18,53%   18,53%   18,53%   18,53%   18,53%   18,53%   19,07%   19,07%   19,07%   19,07%   19,07%   19,07%   19,07%   19,01%   19	<u>Bermuda</u>				15.04%
Ireland	<u>Grenada</u>		-	818	15.22%
Serbia         5,994         36,028         4,123         16.64%           Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         20.61%         20.61%           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%	<u>Indonesia</u>	6,248	39,422	144	15.85%
Sweden         13,822         74,600         7,387         18.53%           Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         4         19         87           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%	<u>Ireland</u>	14,758	90,646	18,358	16.28%
Gabon         108         572         257         18.88%           Honduras         457         2,396         242         19.07%           Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         20.61%         20.61%           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18% <td><u>Serbia</u></td> <td>5,994</td> <td>36,028</td> <td>4,123</td> <td>16.64%</td>	<u>Serbia</u>	5,994	36,028	4,123	16.64%
Honduras   457   2,396   242   19.07%	Sweden	13,822	74,600	7,387	18.53%
Morocco         2,685         13,689         371         19.61%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         21.05%         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         0         4,335         14,373         1,325	<u>Gabon</u>	108	572	257	18.88%
Windsteed         19.81%           USA         737,217         3,711,141         11,212         19.86%           Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         21.05%         21.05%         22.26%           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         4,335         14,373         1,325	<u>Honduras</u>	457	2,396	242	19.07%
Netherlands         31,589         154,911         9,041         20.39%           Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         4         19         87           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         4,335         14,373         1,325	Morocco	2,685	13,689	371	19.61%
Spain         191,726         930,230         19,896         20.61%           Sao Tome and Principe         4         19         87         21.05%           Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         4,335         14,373         1,325	<u>USA</u>	737,217	3,711,141	11,212	19.86%
Sao Tome and Principe       4       19       87         Guyana       63       283       360       22.26%         Panama       4,210       18,559       4,301       22.68%         Moldova       2,378       9,848       2,441       24.15%         Iran       80,868       330,137       3,931       24.50%         UK       114,217       460,437       6,783       24.81%         Belgium       37,183       145,997       12,597       25.47%         San Marino       455       1,605       47,302       28.35%         Ecuador       9,022       30,922       1,753       29.18%         Caribbean       3       10       381         Netherlands       00minican       4,335       14,373       1,325	<u>Netherlands</u>	31,589	154,911	9,041	20.39%
Guyana       63       283       360       22.26%         Panama       4,210       18,559       4,301       22.68%         Moldova       2,378       9,848       2,441       24.15%         Iran       80,868       330,137       3,931       24.50%         UK       114,217       460,437       6,783       24.81%         Belgium       37,183       145,997       12,597       25.47%         San Marino       455       1,605       47,302       28.35%         Ecuador       9,022       30,922       1,753       29.18%         Caribbean       3       10       381         Netherlands       4,335       14,373       1,325	Spain	191,726	930,230	19,896	20.61%
Guyana         63         283         360         22.26%           Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         30.00%         30.00%	Sao Tome and	4	19	87	
Panama         4,210         18,559         4,301         22.68%           Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         0         4,335         14,373         1,325	<u>Principe</u>				21.05%
Moldova         2,378         9,848         2,441         24.15%           Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         30.00%         30.00%	Guyana	63	283	360	22.26%
Iran         80,868         330,137         3,931         24.50%           UK         114,217         460,437         6,783         24.81%           Belgium         37,183         145,997         12,597         25.47%           San Marino         455         1,605         47,302         28.35%           Ecuador         9,022         30,922         1,753         29.18%           Caribbean         3         10         381           Netherlands         4,335         14,373         1,325	<u>Panama</u>	4,210	18,559	4,301	22.68%
UK     114,217     460,437     6,783     24.81%       Belgium     37,183     145,997     12,597     25.47%       San Marino     455     1,605     47,302     28.35%       Ecuador     9,022     30,922     1,753     29.18%       Caribbean     3     10     381       Netherlands     30.00%       Dominican     4,335     14,373     1,325	Moldova	2,378	9,848	2,441	24.15%
Belgium       37,183       145,997       12,597       25.47%         San Marino       455       1,605       47,302       28.35%         Ecuador       9,022       30,922       1,753       29.18%         Caribbean       3       10       381         Netherlands       30.00%         Dominican       4,335       14,373       1,325	<u>Iran</u>	80,868	330,137	3,931	24.50%
San Marino       455       1,605       47,302         Ecuador       9,022       30,922       1,753         Caribbean       3       10       381         Netherlands       30.00%         Dominican       4,335       14,373       1,325	<u>UK</u>	114,217	460,437	6,783	24.81%
Ecuador     9,022     30,922     1,753     29.18%       Caribbean     3     10     381       Netherlands     30.00%       Dominican     4,335     14,373     1,325	<u>Belgium</u>	37,183	145,997	12,597	25.47%
Caribbean       3       10       381         Netherlands       3       10       381         Dominican       4,335       14,373       1,325	San Marino	455	1,605	47,302	28.35%
Caribbean       3       10       381         Netherlands       30.00%         Dominican       4,335       14,373       1,325	<u>Ecuador</u>	9,022	30,922	1,753	29.18%
<u>Dominican</u> 4,335 14,373 1,325	Caribbean	3	10	381	
B. I.I.	<u>Netherlands</u>				30.00%
Republic 30 16%	Dominican	4,335	14,373	1,325	
30.1070	Republic				30.16%

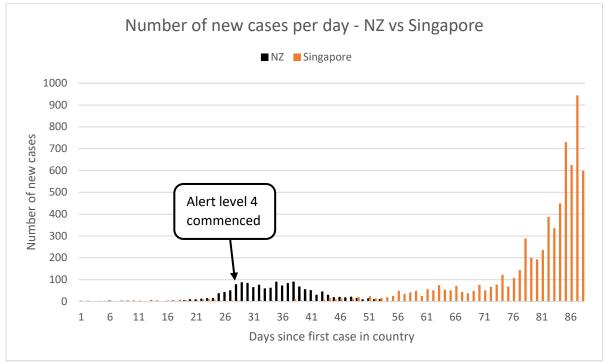
Montserrat	11	36	7,212	30.56%
Antigua and	23	73	745	
<u>Barbuda</u>				31.51%
<u>France</u>	151,793	463,662	7,103	32.74%
Sint Maarten	64	163	3,802	39.26%
<u>Andorra</u>	704	1,673	21,653	42.08%
Brazil	36,658	62,985	296	58.20%
Algeria	2,534	3,359	77	75.44%

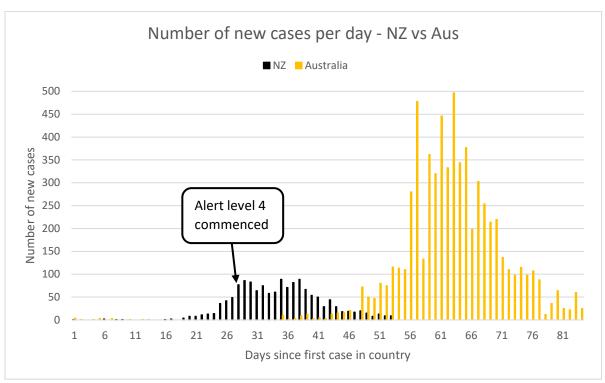
**Data up to 19 April 2020** from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>) **NZ data to 20 April** from Ministry of Health





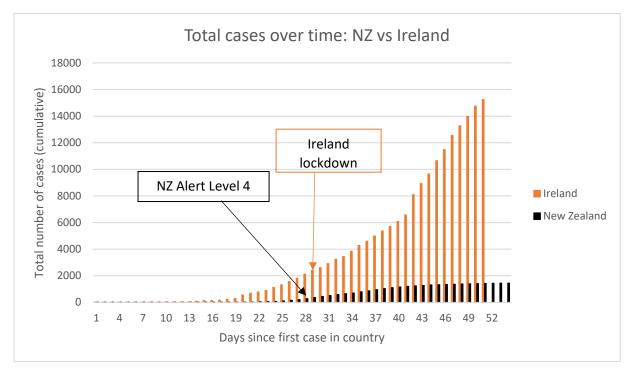
**Data up to 19 April 2020** from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>) **NZ data to 20 April** from Ministry of Health

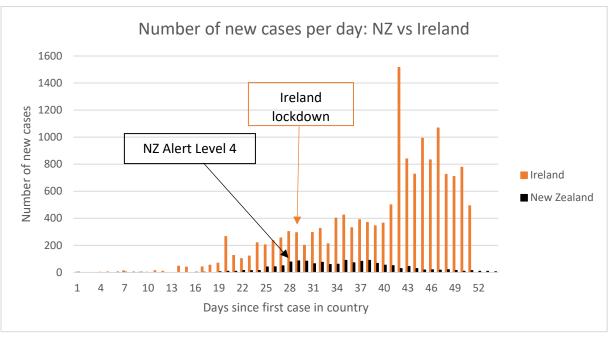




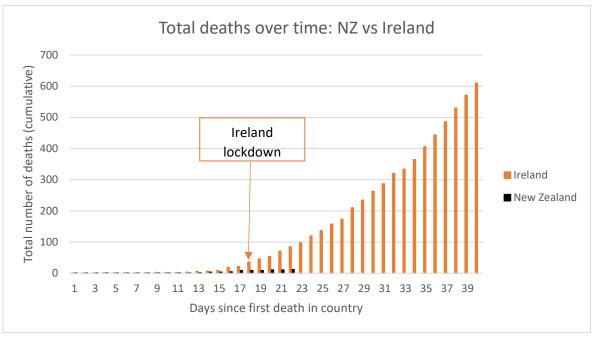
#### COVID-19: New Zealand vs Republic of Ireland

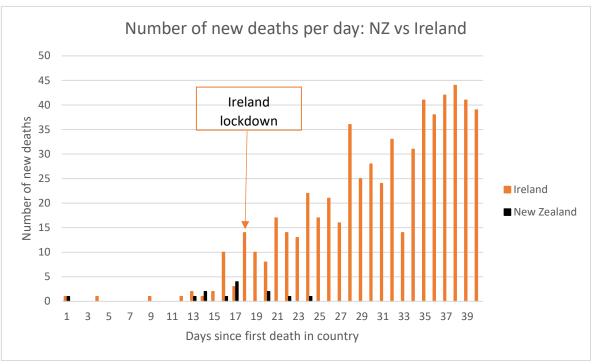
	Republic of Ireland	New Zealand
Population	4.9 million	4.9 million
Date of first case	29 February	28 February
Total number of cases	15,652	1,445
Total number tested	90,646 (as of 14 April)	89,508 (as of 21 April)
Total number of deaths	687	13
Total hospitalised	2,272	74
Date of lockdown	28 March (2415 cases)	26 March (281 cases)



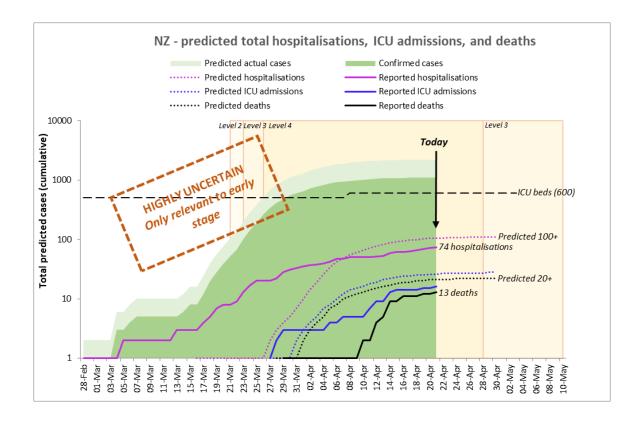


Ireland data up to 19 April 2020 from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>)
NZ data to 21 April 2020 collated from daily stand-up meetings; includes both confirmed and probable cases





Note: New Zealand already in Alert Level 4 when first death occurs on 29 March.



Median time from onset of symptoms to ICU admission has been reported as approximately ten days. <sup>18</sup> This time has been applied to confirmed NZ cases<sup>19</sup> with an assumption that 50% of actual cases have been missed<sup>20</sup>, at a rate of 5% for hospitalisations, 1.25% for ICU admissions<sup>21</sup> and 1% for deaths<sup>22</sup>.

Reported hospitalisations are from Ministry of Health data.<sup>23</sup> The hospitalisations are cumulative and have not allowed for those leaving hospital, so the graph is only relevant to the early stage of the response.

<sup>&</sup>lt;sup>18</sup> See <a href="https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext">https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(20)30195-X/fulltext</a> and <a href="https://www.nejm.org/doi/full/10.1056/NEJMe2002387">https://www.nejm.org/doi/full/10.1056/NEJMe2002387</a>

<sup>&</sup>lt;sup>19</sup> Only **confirmed** cases included here.

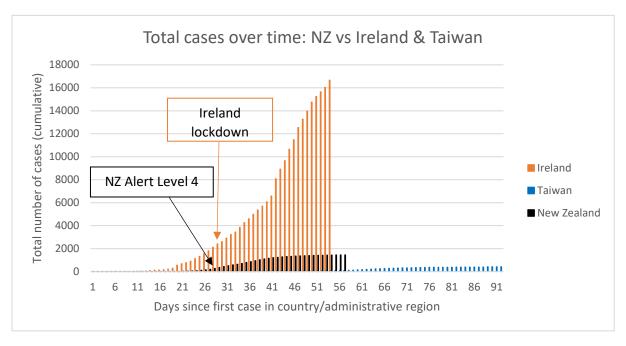
<sup>&</sup>lt;sup>20</sup> We have assumed only 50% of actual cases in NZ have been identified and confirmed.

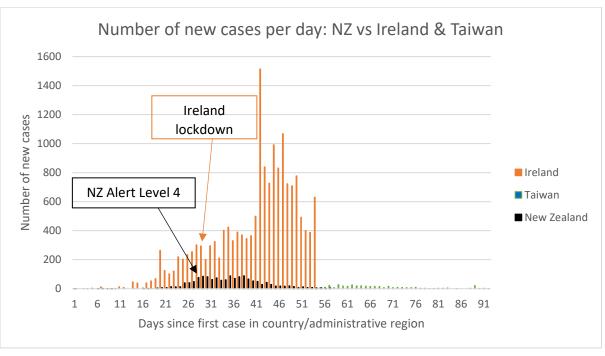
<sup>&</sup>lt;sup>21</sup> ICU data is approximate – official data not accessed.

<sup>&</sup>lt;sup>22</sup> Figures taken from model assumptions under 'realistic' scenario from 'COVID-19 Modelling Update', 26 March 20, produced by Te Punaha Matatini with support from Orion Health, Contact Shaun Hendy.

<sup>&</sup>lt;sup>23</sup> Hospitalisation date may not align with actual admission date.

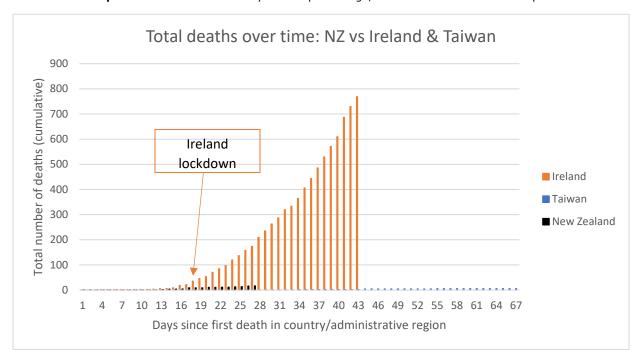
	Republic of Ireland	New Zealand	Taiwan
Population	4.9 million	4.9 million	23.8 million
Date of first case	29 February	28 February	21 January
Total number of cases	16,671	1,456	426
Total number tested	111,584 (as of 21 April)	108,238 (as of 24 April)	58,003 (as of 22 April)
Total number of deaths	769	17	6
Total hospitalised	2,424	83	All patients
Date of lockdown	28 March (2415 cases)	26 March (281 cases)	No lockdown

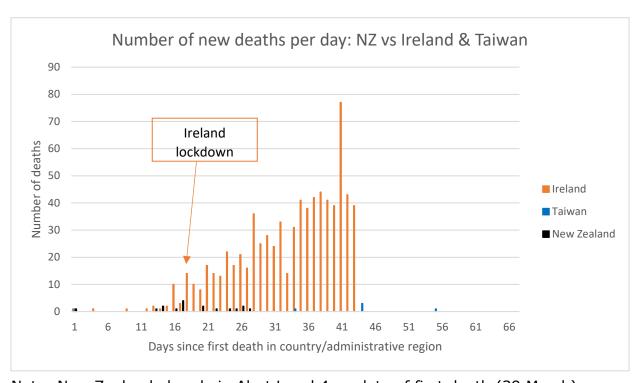




Ireland & Taiwan data up to 22 April 2020 from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>)

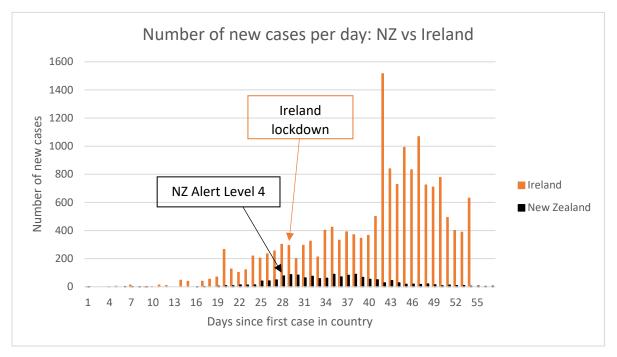
NZ data to 24 April 2020 collated from daily stand-up meetings; includes both confirmed and probable cases

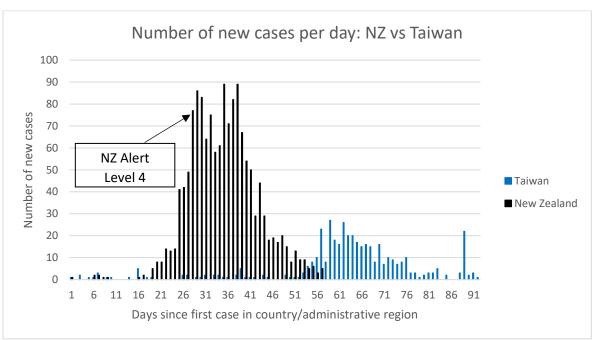




Note: New Zealand already in Alert Level 4 on date of first death (29 March).

Ireland & Taiwan data up to 22 April 2020 from Johns Hopkins University (<a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>)
NZ data to 24 April 2020 collated from daily stand-up meetings; includes both confirmed and probable cases





Last updated 26-Apr-20

			Lockdown start		Lockdown completed		As at 25 April							
	Max	Level 3 or 4	Level 3 or	Days since	Total	New cases	Days since	Total	New	Level	Days	Total	New	Notes
	lockdown	Lockdown	4	first case	cases at	at	first case	cases at	cases/day at		since	cases	cases	
	level*	(days)#	extensions	(date of	lockdown	lockdown	(date lifted)	lockdown	lockdown		first			
				start)	start	start		finish	finish		case			
		Ongoing												
New Zealand	3-4	(35)	1 (5 days)	26 (24-Mar)	155	42	-			4	58	1,464	5	
		Ongoing		50 (22.14.)	4 007	270						6.605		
Australia	3	(36)	1	59 (23-Mar)	1,887	278	-			3	92	6,695	20	
Austria	2.4	Ongoing		21 (16 Mar)	1,018	150				3-4	61	15,148	77	
Austria	3-4	(43) Lifted		21 (16-Mar)	1,016	158	-			3-4	01	15,146	//	
Czechia	3-4	(37)		14 (14-Mar)	189	48	51 (20-Apr)	6,900	154	2+	56	7,352	79	
CZCCIIIU	3 4	Ongoing		14 (14 14101)	103	70	31 (20 / Ipi)	0,500	154	2.	30	7,332	,,,	
Denmark	3-4	(47)		15 (12-Mar)	674	160	_			3	59	8,445	235	
		Ongoing		- (								2,110		
France	4	(42)	2	54 (17-Mar)	7,730	1,097	-			3	93	161,488	1,660	
		Lifted		,										
Germany	4	(35)		50 (16-Mar)	7,272	1,459	85 (20-Apr)	147,065	1,323	2+	90	156,513	1,514	
Hong Kong	2	-	-	-			-			2	94	1,038	2	
		Ongoing												Based on assumption that first case
Hubei, China	4	(76)		68 (23-Jan)	444	0	144 (08-Apr)	67803	0	1-2	161	68128	0	was 17 Nov 2019
111	2.4	Ongoing	_	42 (42 84)	70	27				2.4		40.564	277	
Ireland	3-4	(47)	1	13 (12-Mar)	70	27	-			3-4	57	18,561	377	
laman	2									2	102	12 221	F10	
Japan	2	Ongoing	-	-			-				102	13,231	519	
Italy	3-4	(49)	2	40 (10-Mar)	10,149	977	_			3-4	86	195,351	2,357	
leary	3 4	Ongoing		40 (10 IVIAI)	10,143	377				3 4	00	133,331	2,337	
Norway	3-4	(39)		16 (12-Mar)	800	171	55 (20-Apr)	7,156	78	2+	60	7,493	30	
Daegu Region,		Lifted		, ,			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,				,		
South Korea	3-4	(59)		33 (21-Feb)			92 (20-Apr)							Indicative dates
		Ongoing												
Singapore	3-4	(25)	2	72 (03-Apr)	1,114	65	-			3-4	94	12,693	618	
		Ongoing												Reported as scheduled to lower to
Spain	3-4	(44)	1	44 (14-Mar)	6,391	1,159	-			3-4	86	223,759	3,995	"Level 2" on 26 April
6 . 1										, ,	2.5	40.47-	645	
Sweden	1-2	-	-	-			-			1-2	86	18,177	610	
Taiwan	1-2									1-2	96	429	1	
(Territory)	1-2	Ongoing	-	-	-		-			1-7	96	429	1	
UK	3-4	Ongoing (36)		38 (23-Mar)	6,650	697	_			3-4	71	148,377	4,913	
	3-4	Lifted		30 (23-iviai)	0,030	037				J- <del>4</del>	,,	170,377	4,313	
Vietnam	3-4	(22)		70 (01-Apr)	218	6	92 (23-Apr)	268	0	1-2	94	270	0	
Tictilaili	1 37	(22)	<u> </u>	10 (0± Api)			32 (23 Apr)	1 200		1 - 4	1 54			

<sup>\*</sup> NZ Level equivalence