

COVID-19 Cases

As of Wednesday 4/15/2020, 6:00PM HST

Statistics regarding daily new cases and active cases of the eight countries that has the highest number of total cases, Switzerland, Austria, South Korea, Israel, Australia, and Cyprus.

Source: <https://www.worldometers.info/coronavirus/>

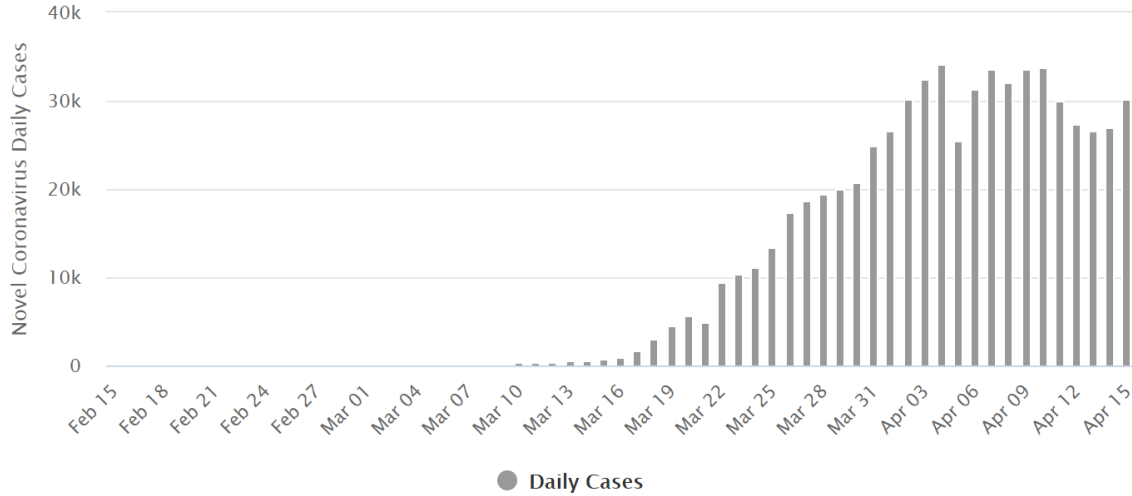
Statistics regarding daily new cases are also included for Hawaii.

Source: <https://health.hawaii.gov/news/covid-19-updates/>

Daily New Cases in the United States

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

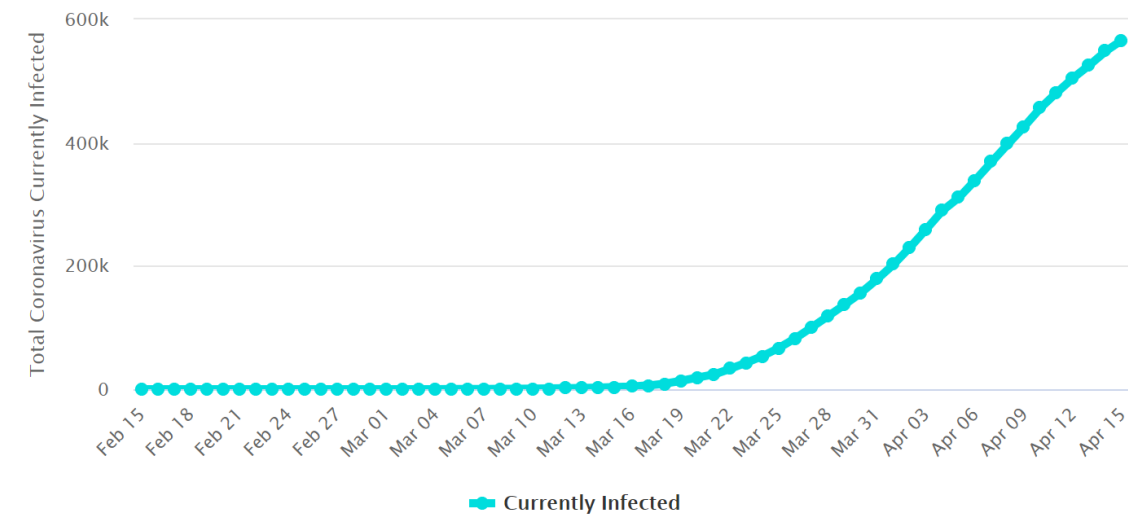


1. USA

Active Cases in the United States

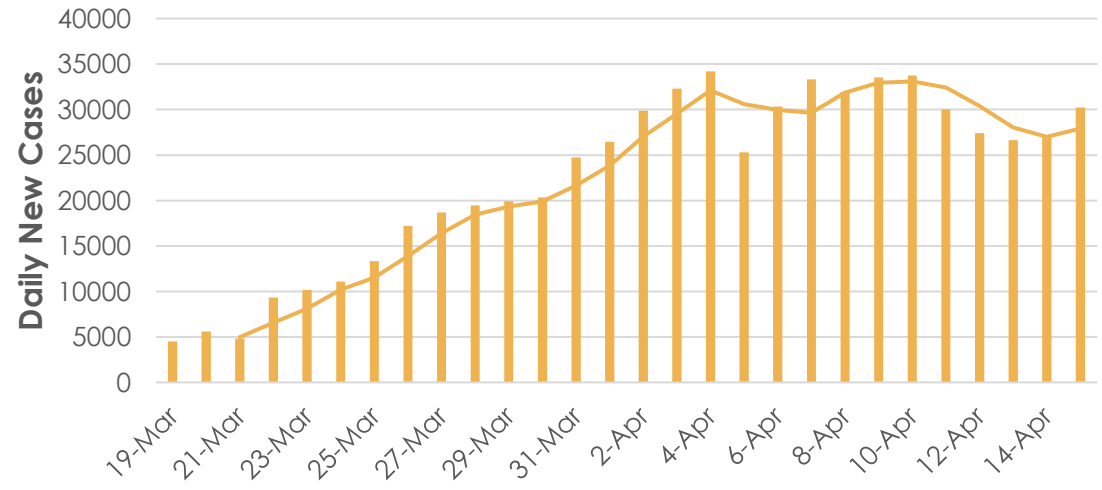
Active Cases

(Number of Infected People)

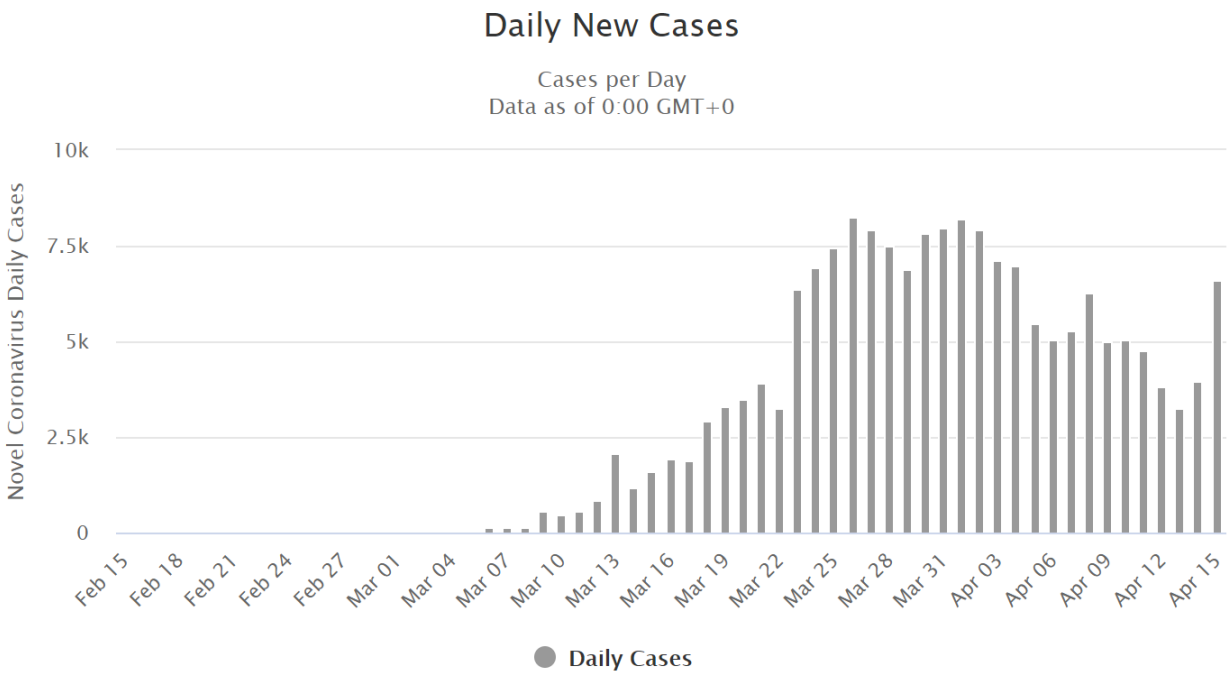


3-Day Moving Average Trendline

USA 3 per. Mov. Avg. (Daily New Cases)

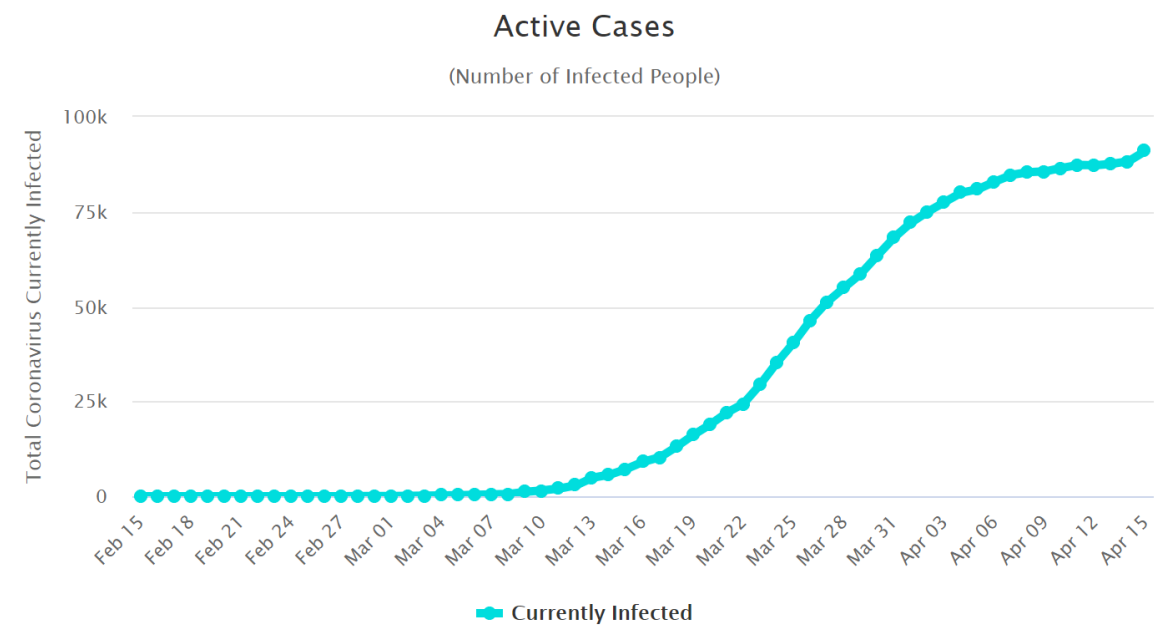


Daily New Cases in Spain



2. Spain

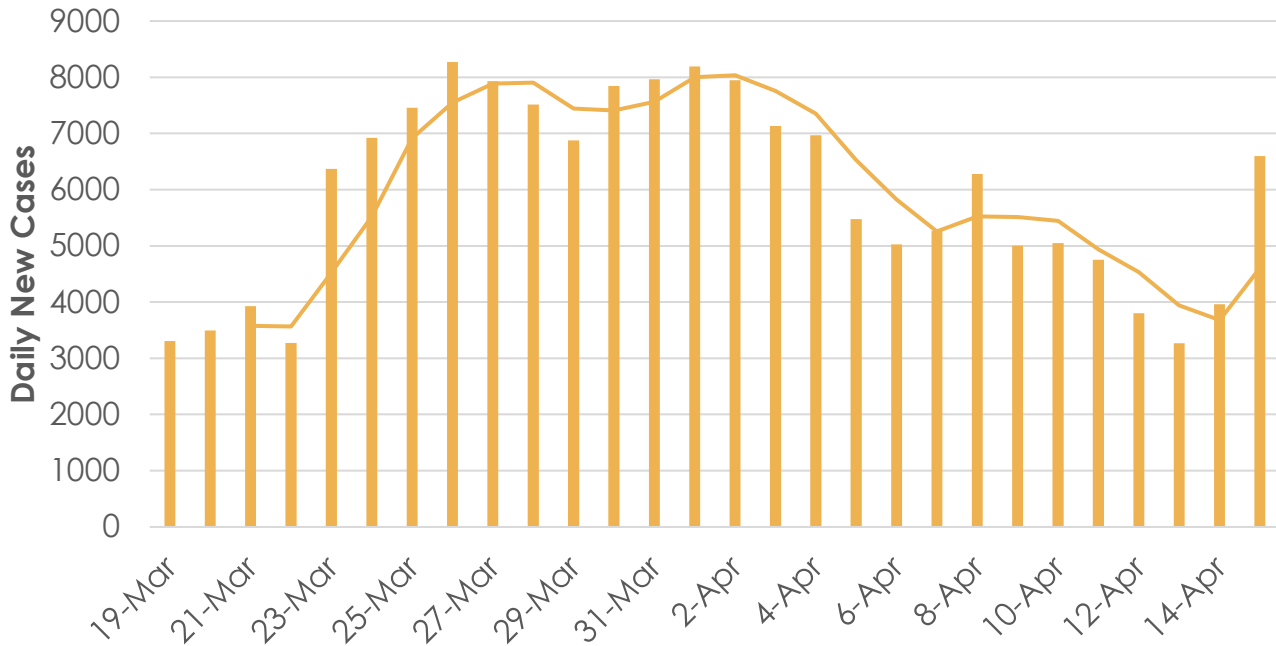
Active Cases in Spain



Trendlines for Spain

3-Day Moving Average Trendline

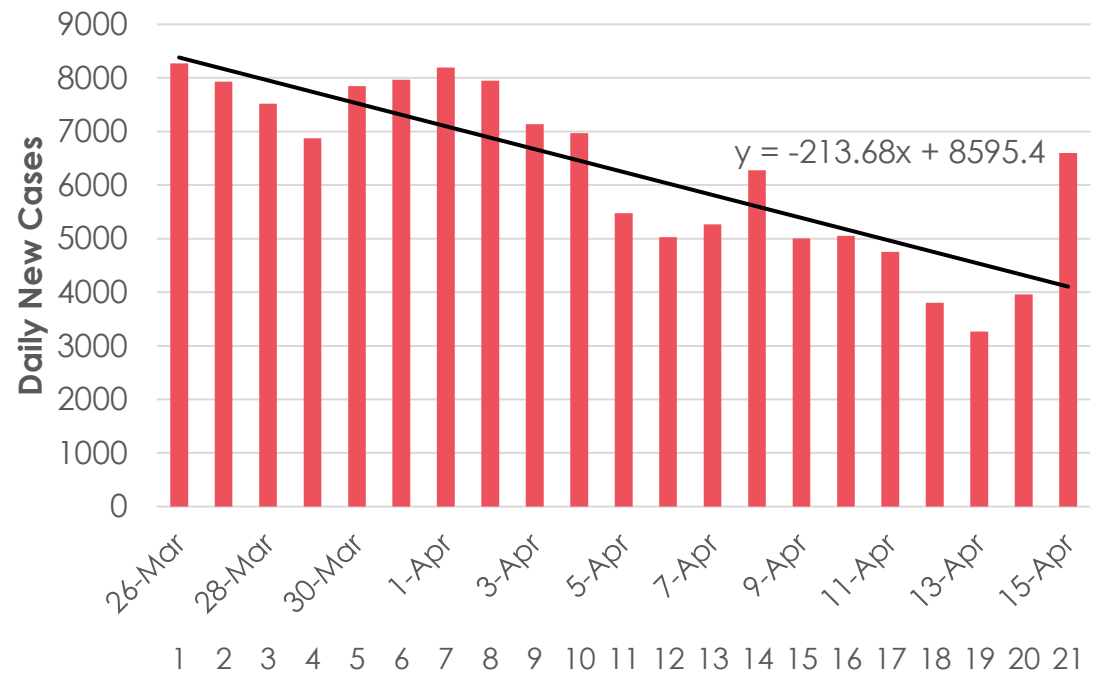
Spain 3 per. Mov. Avg. (Daily New Cases)



Spain Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

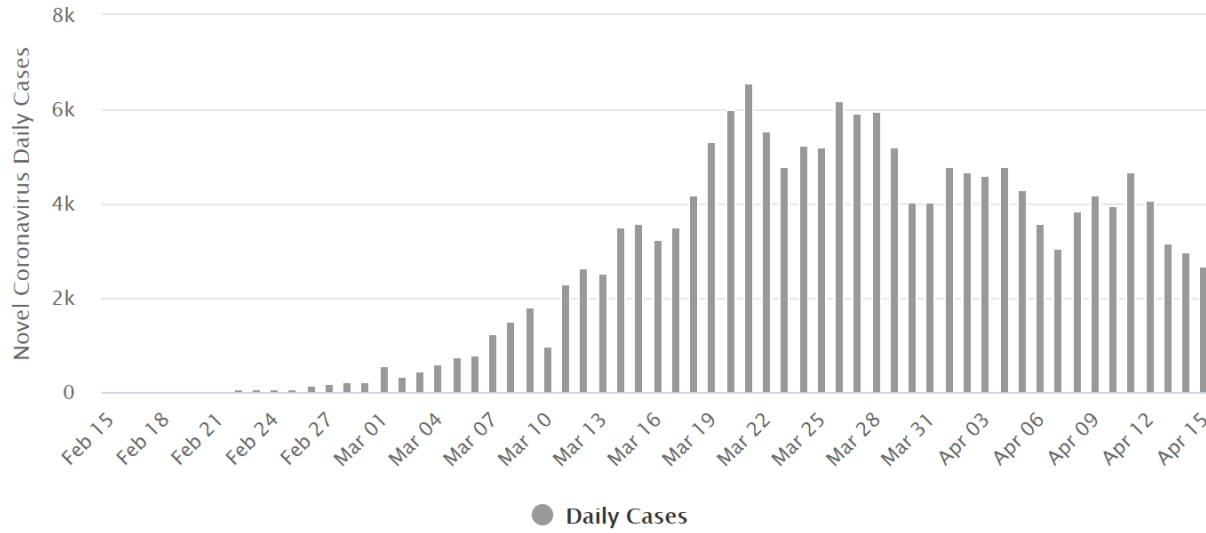
when $y = 0$; $x = 40$
(May 05)



Daily New Cases in Italy

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

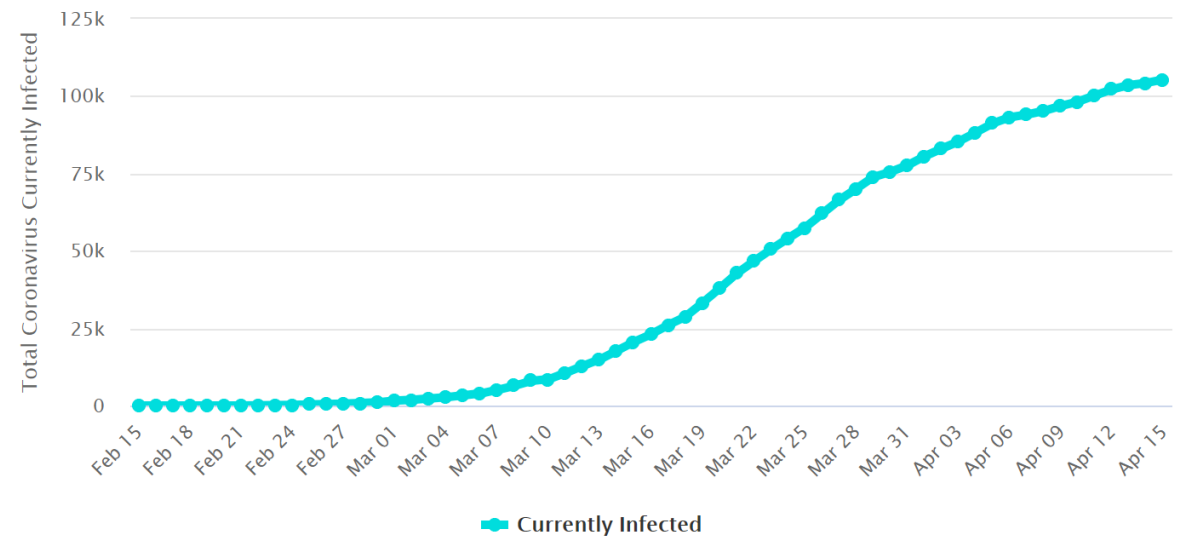


3. Italy

Active Cases in Italy

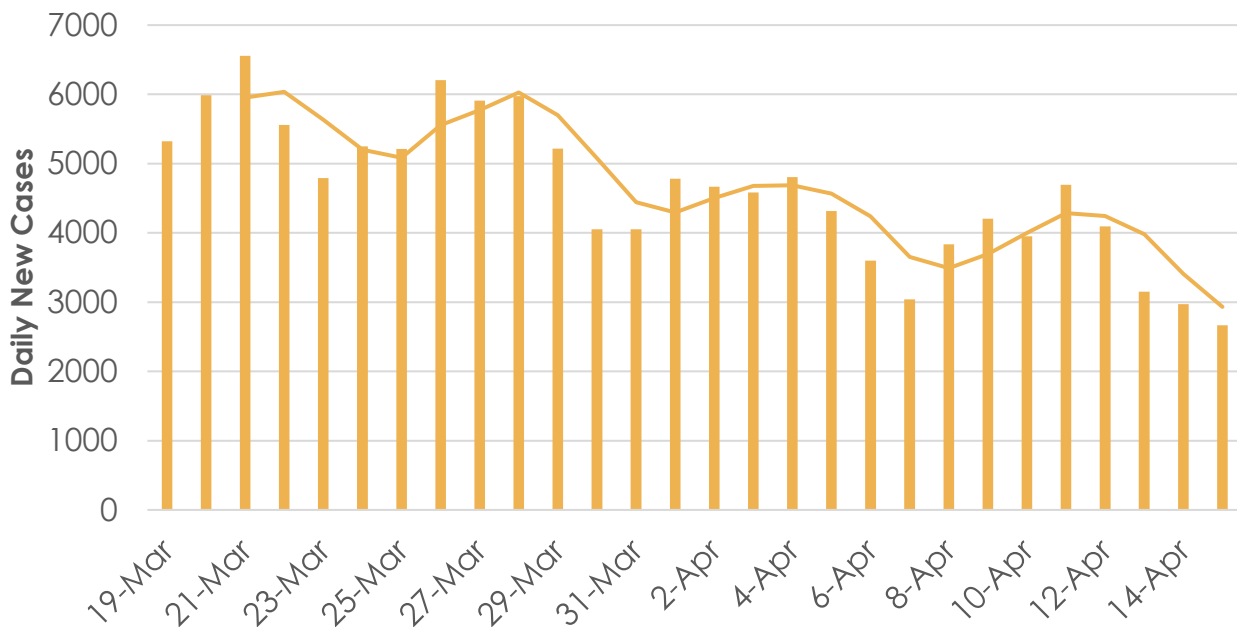
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

Italy 3 per. Mov. Avg. (Daily New Cases)

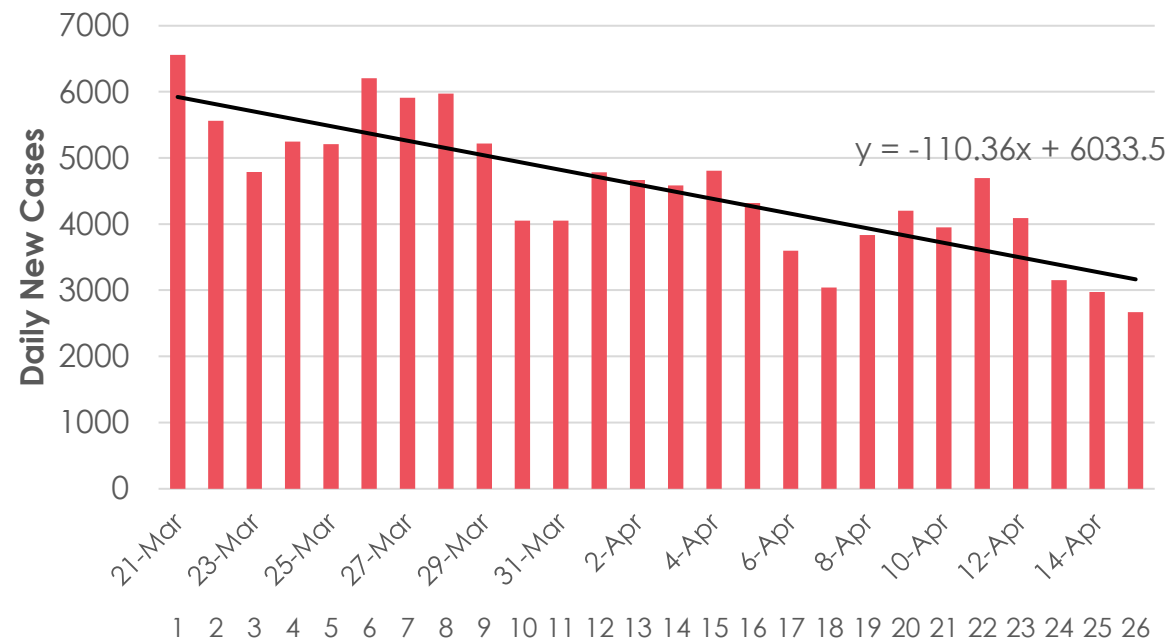


Trendlines for Italy

Italy Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

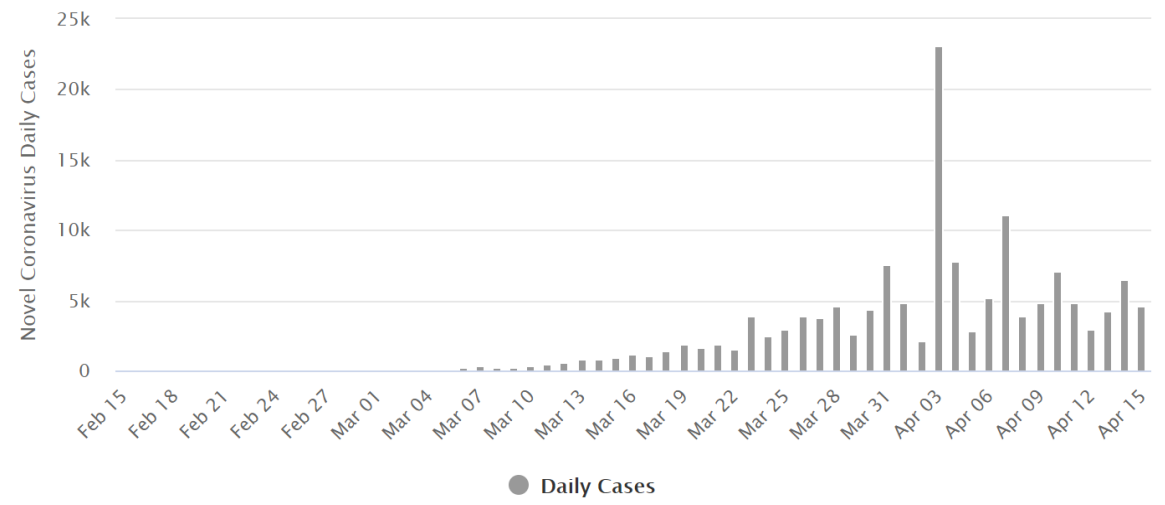
when $y = 0$; $x = 55$
(May 15)



Daily New Cases in France

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

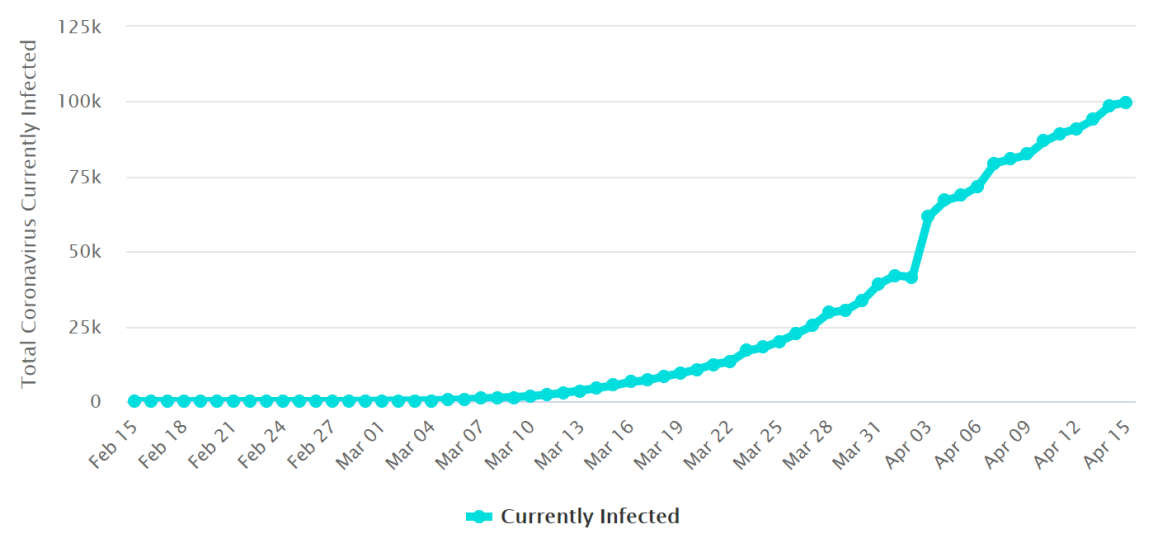


4. France

Active Cases in France

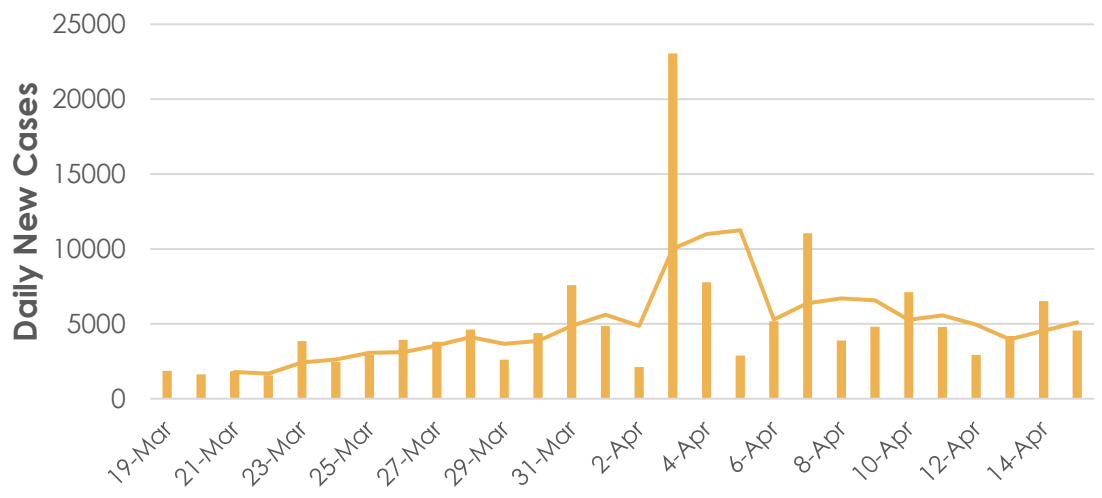
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

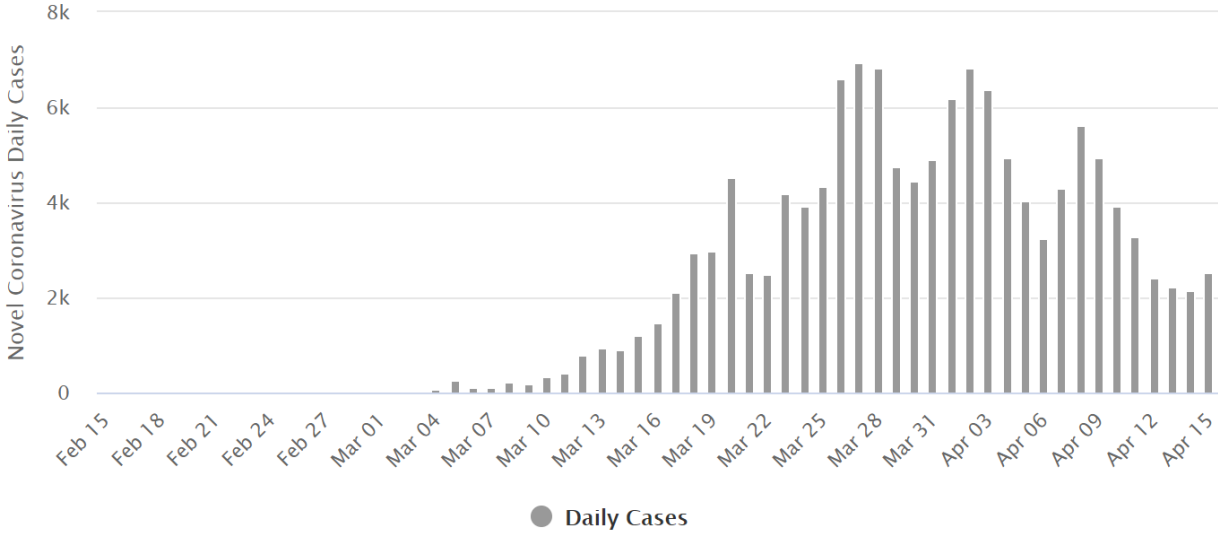
France 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in Germany

Daily New Cases

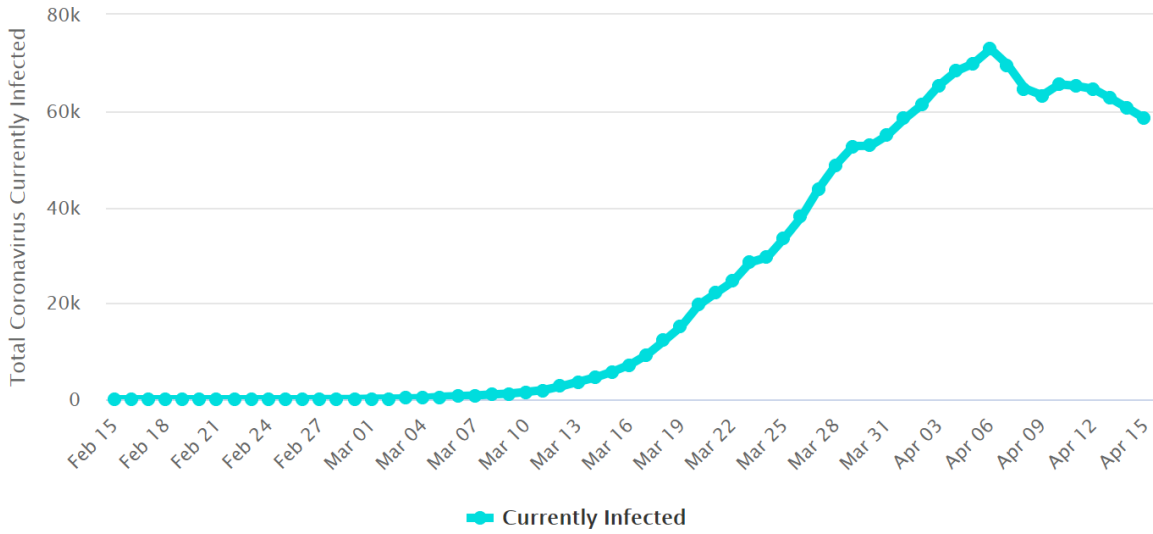
Cases per Day
Data as of 0:00 GMT+0



5. Germany

Active Cases in Germany

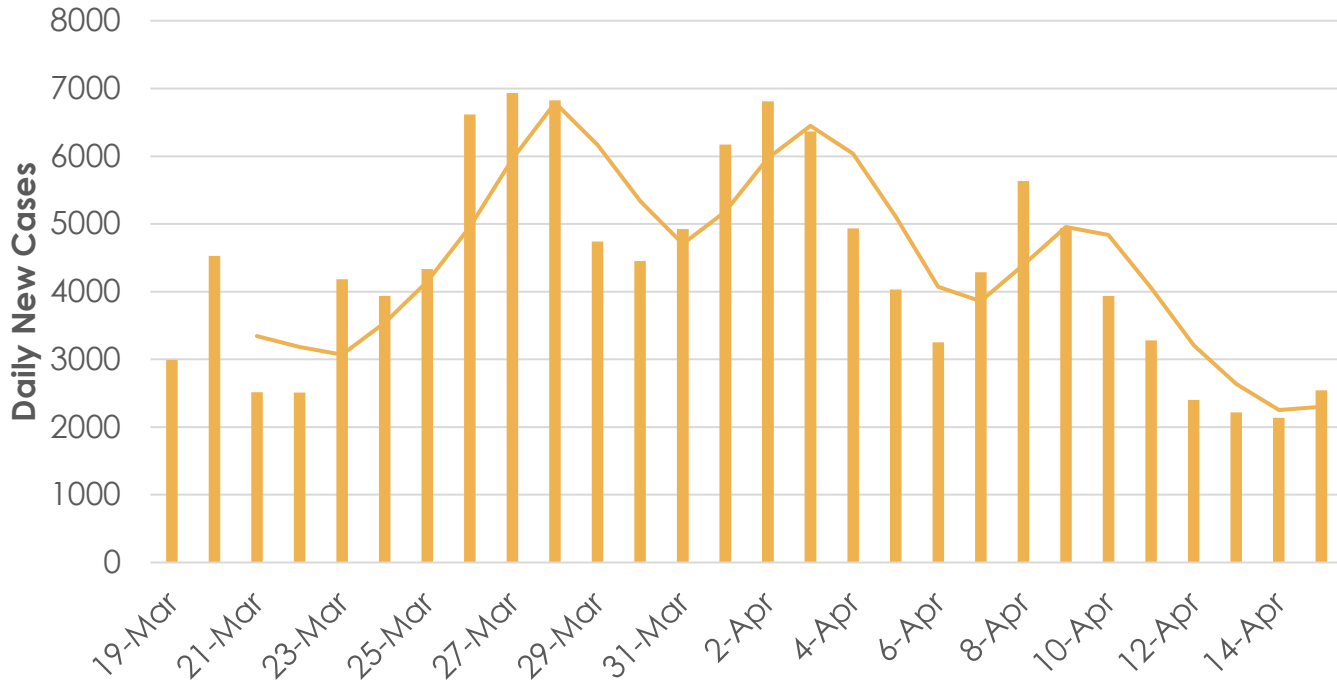
Active Cases
(Number of Infected People)



Trendlines for Germany

3-Day Moving Average Trendline

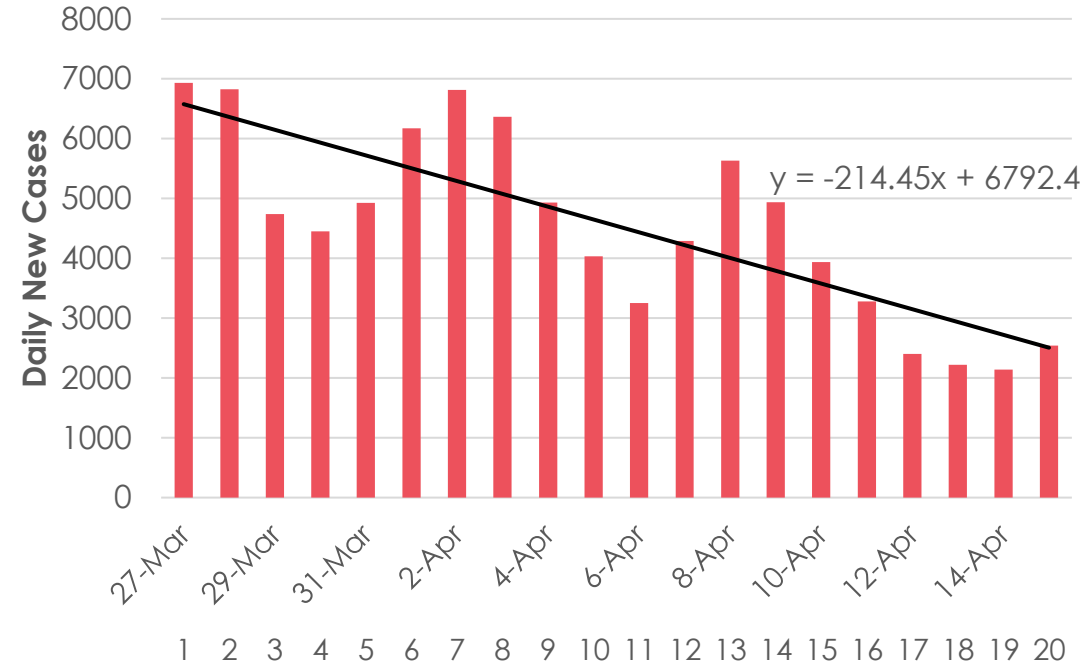
Germany 3 per. Mov. Avg. (Daily New Cases)



Germany Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

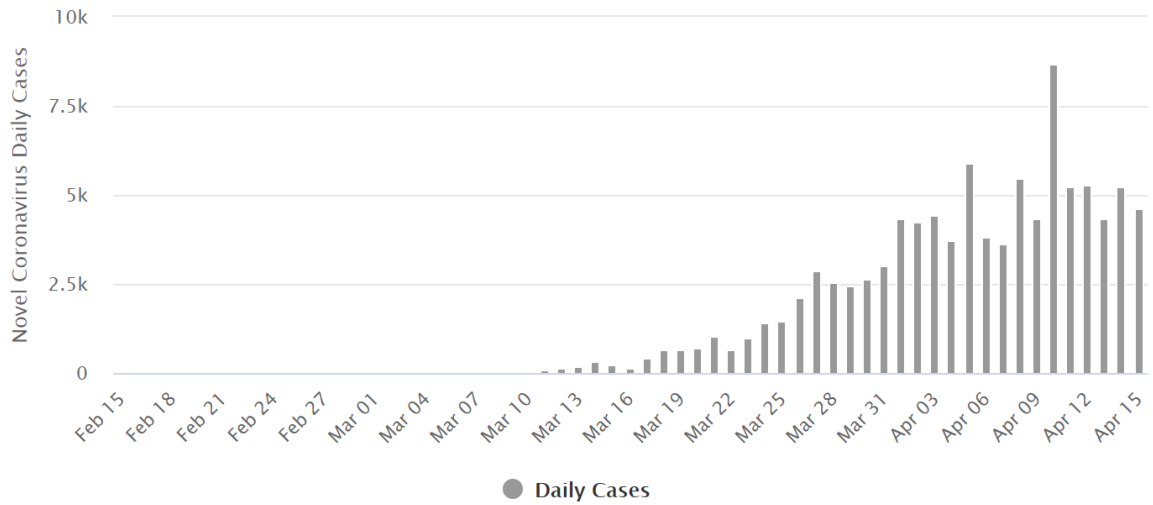
when $y = 0$; $x = 32$
(April 28)



Daily New Cases in the United Kingdom

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

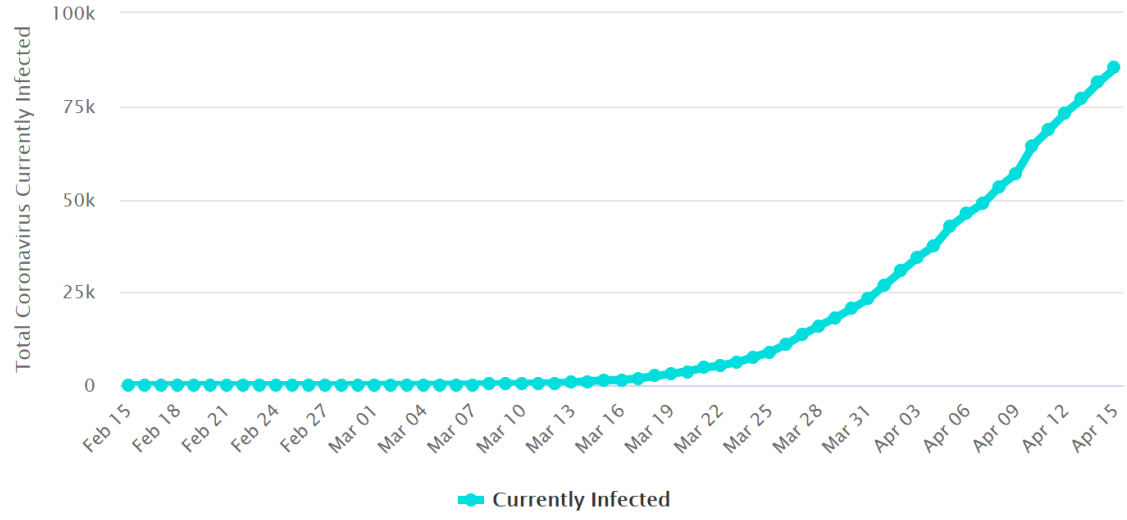


6. UK

Active Cases in the United Kingdom

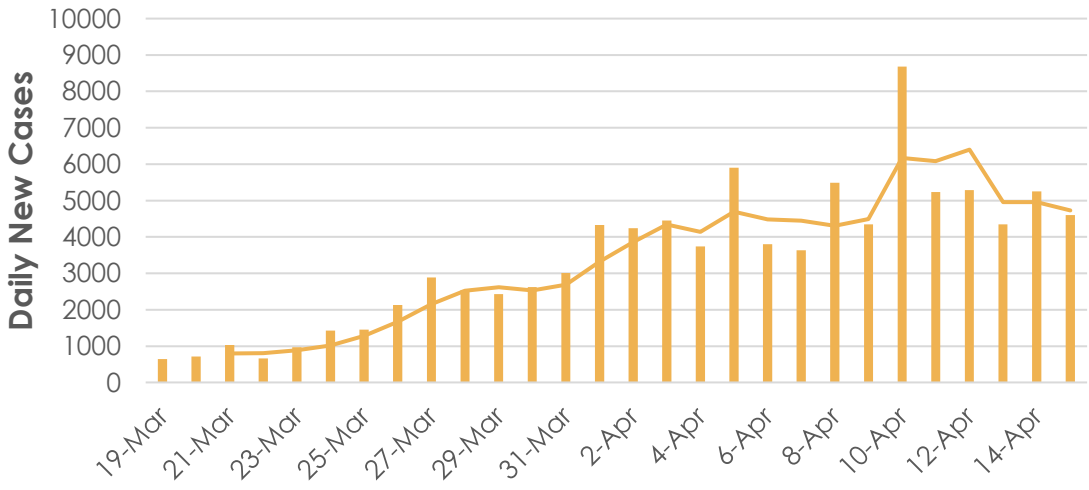
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

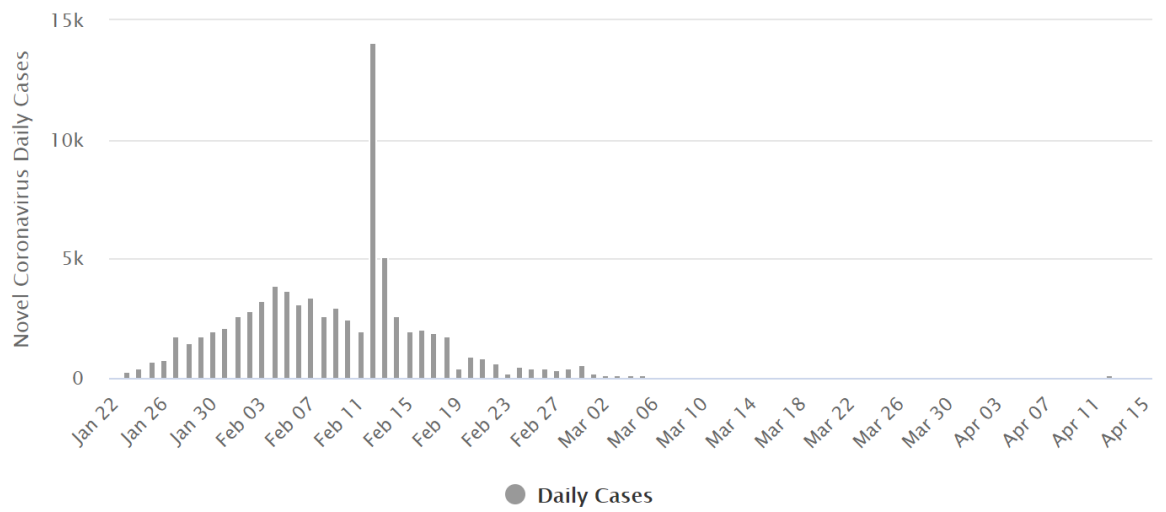
UK 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in China

Daily New Cases

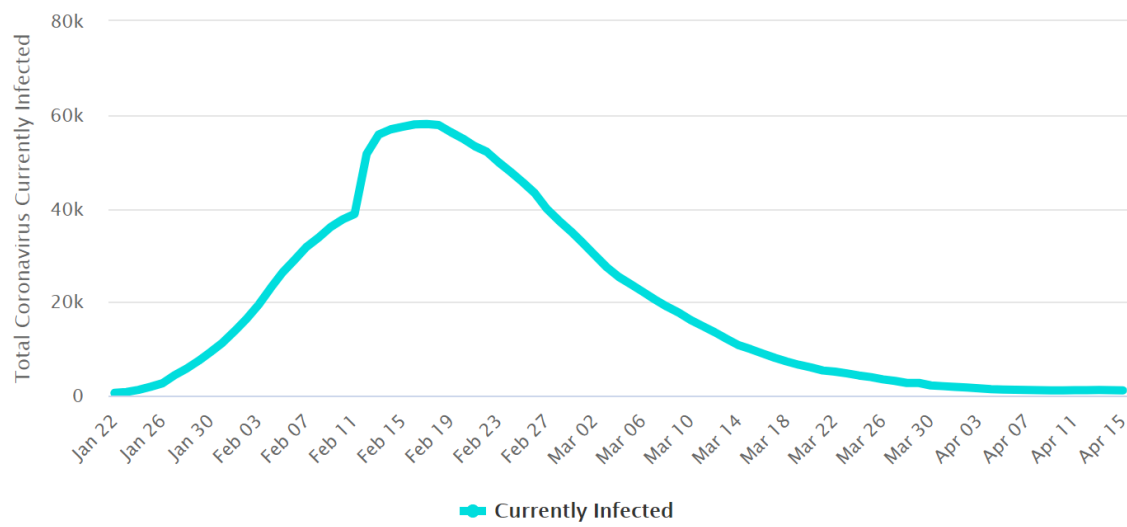
Cases per Day
Data as of 0:00 GMT+0



7. China

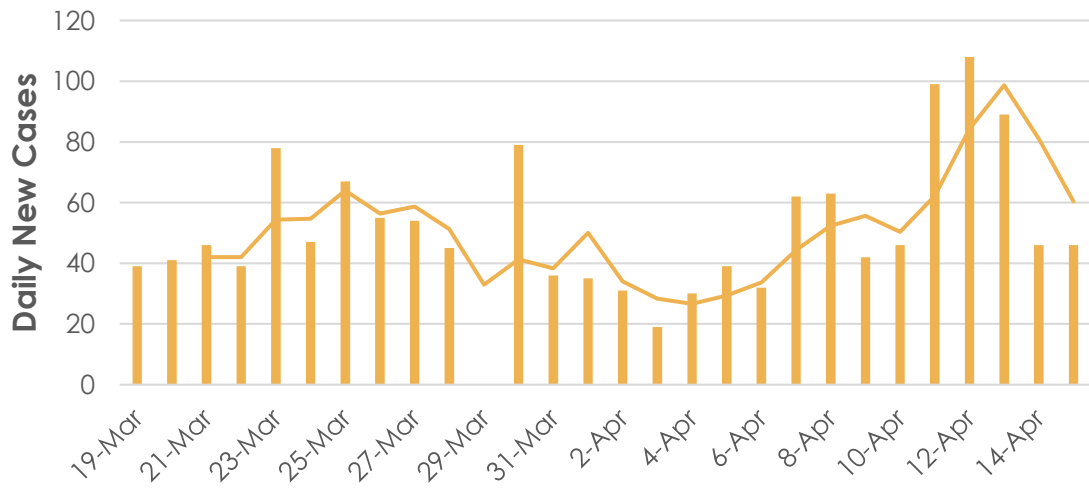
Active Cases in China

Active Cases
(Number of Infected People)



3-Day Moving Average Trendline

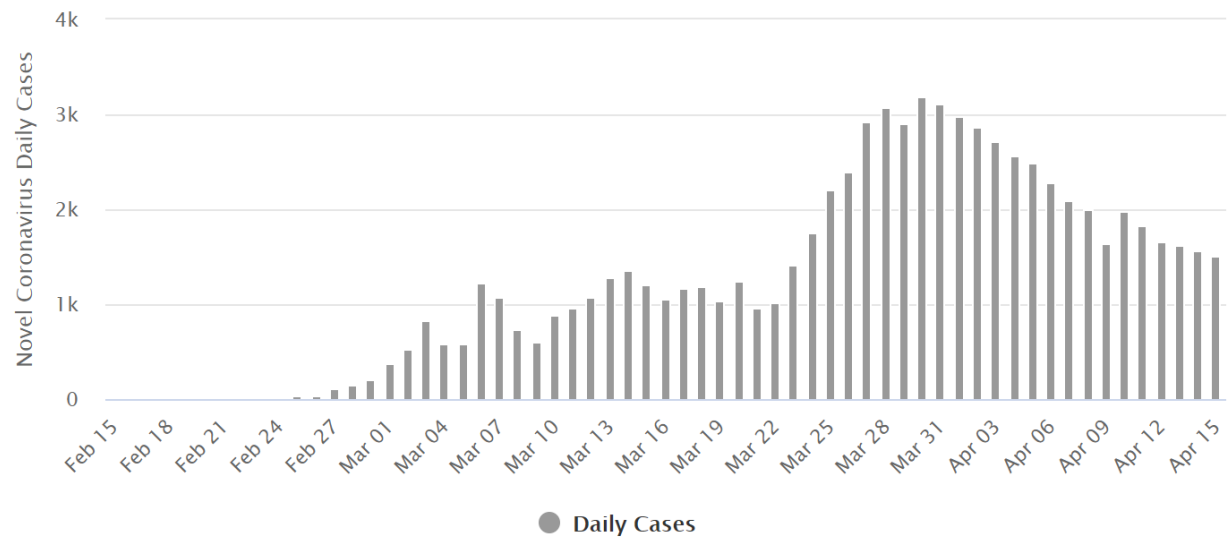
China 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in Iran

Daily New Cases

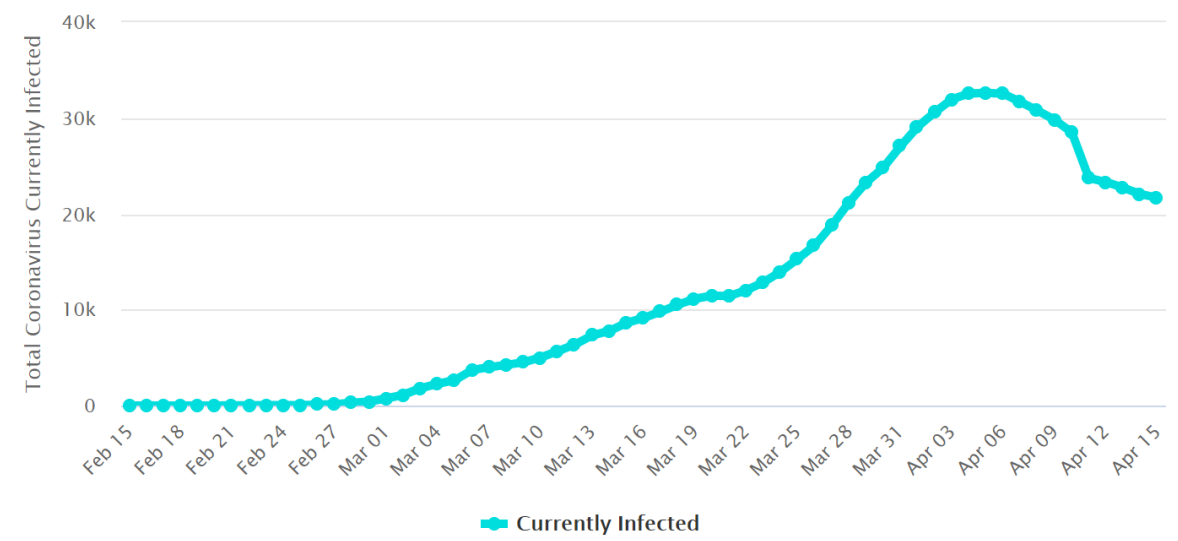
Cases per Day
Data as of 0:00 GMT+0



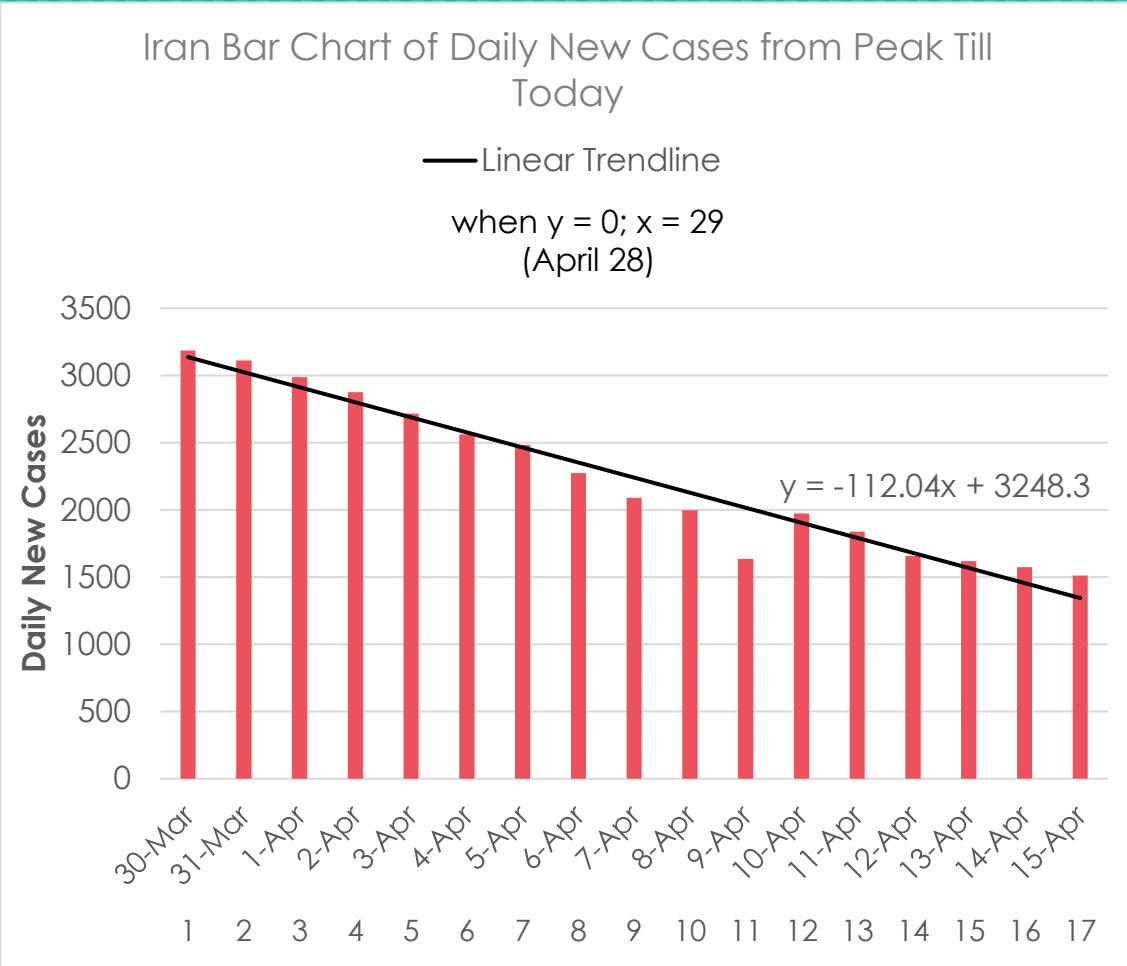
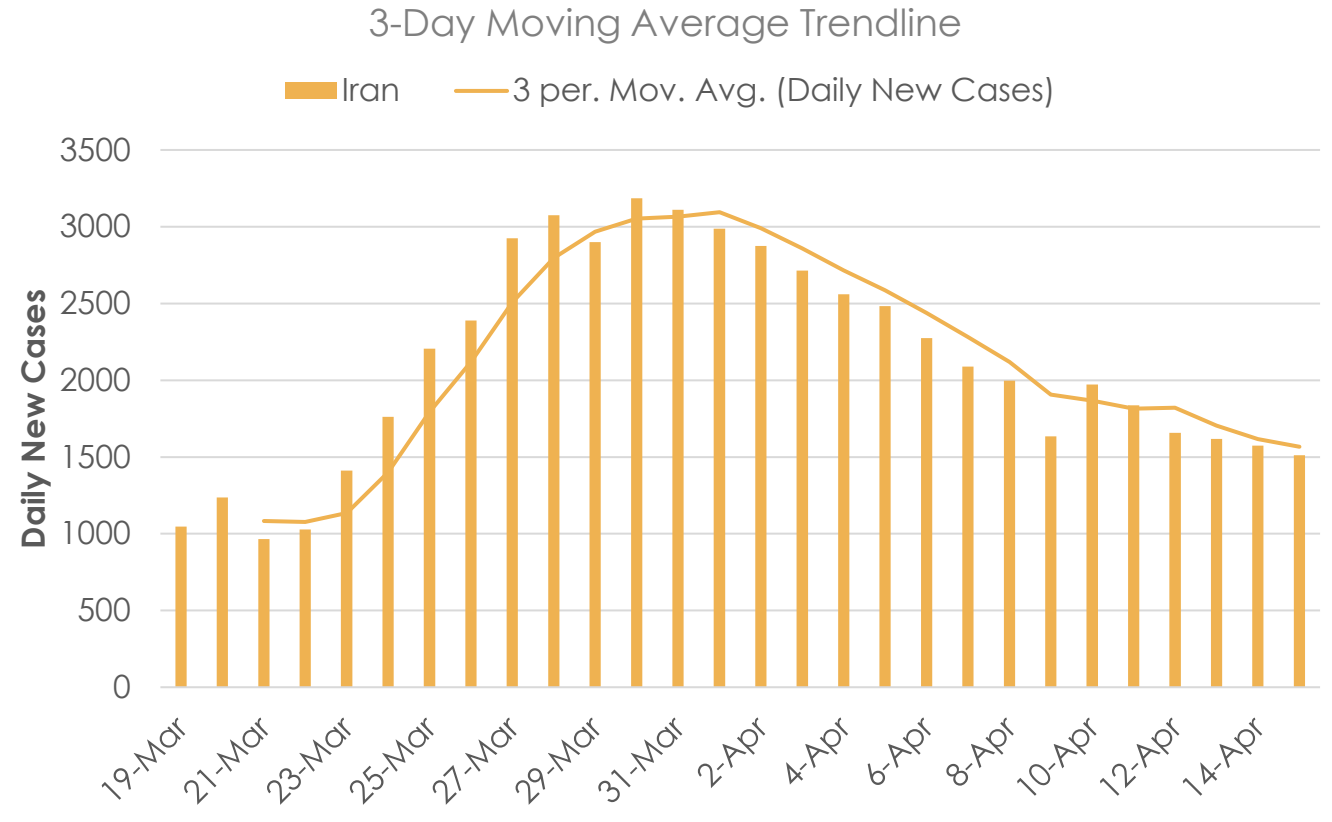
8. Iran

Active Cases in Iran

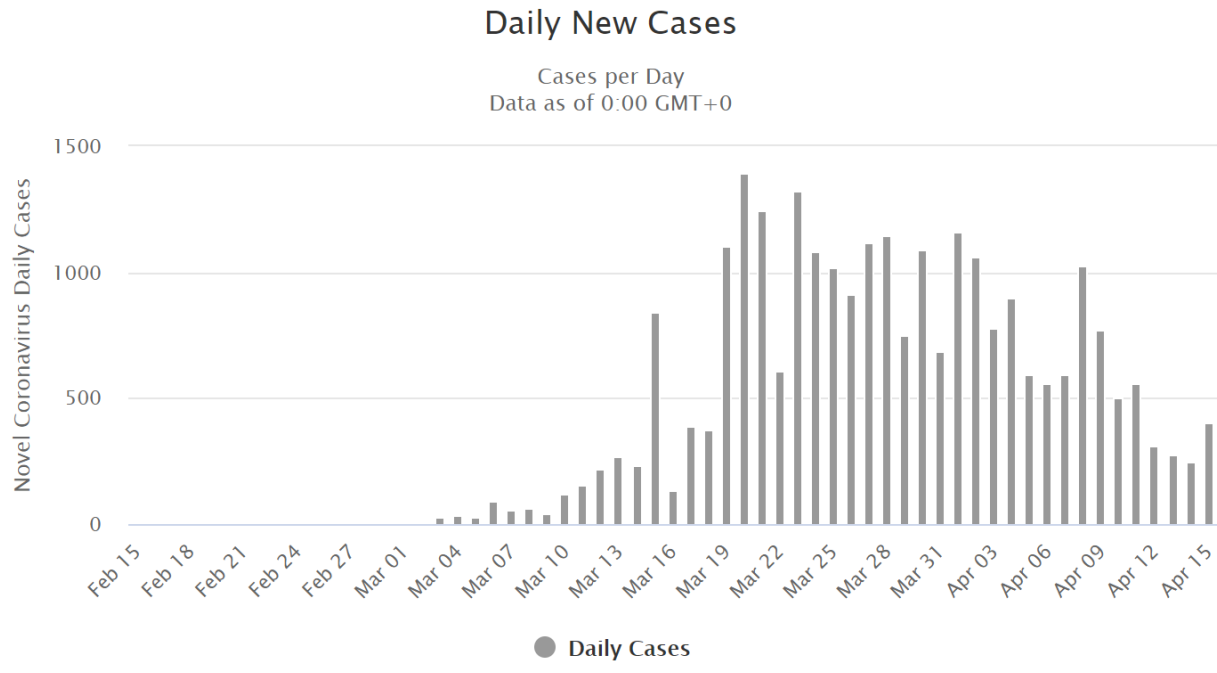
Active Cases
(Number of Infected People)



Trendlines for Iran

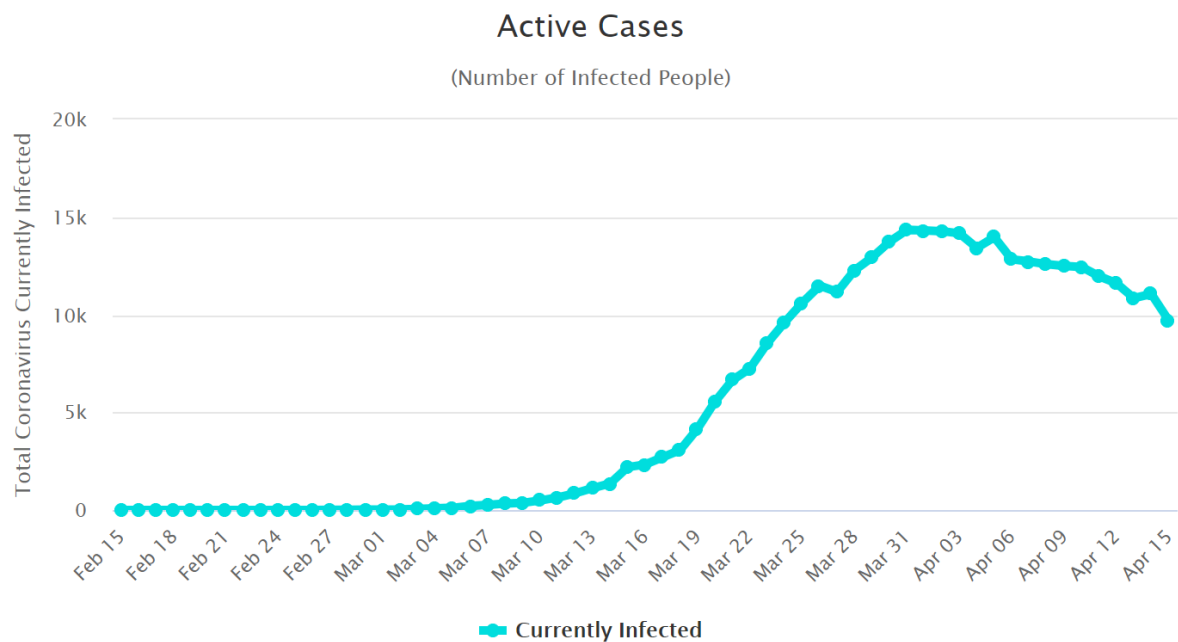


Daily New Cases in Switzerland

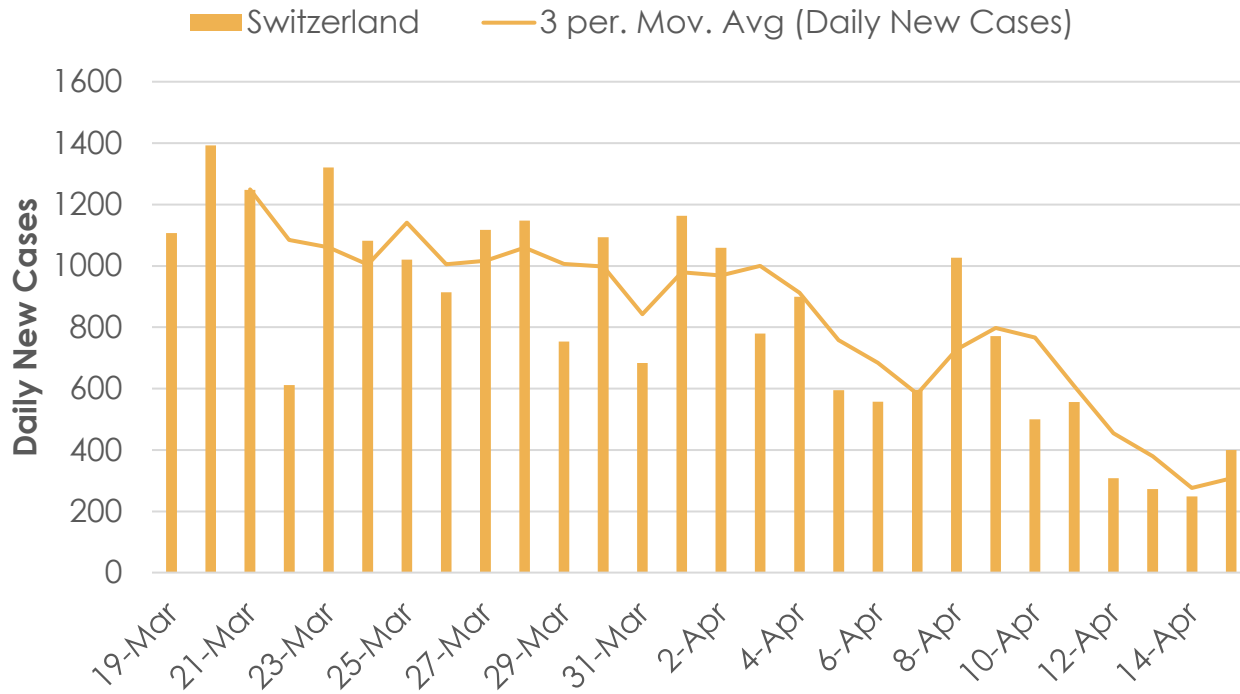


9. Switzerland

Active Cases in Switzerland

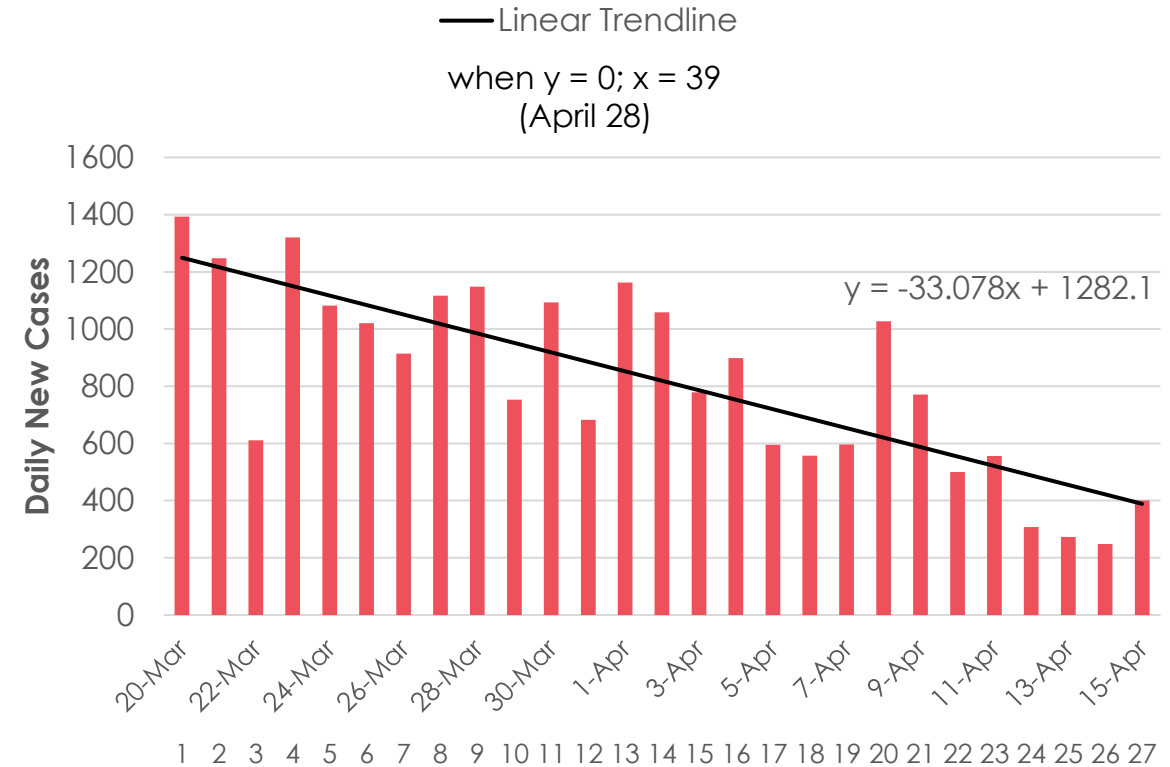


3-Day Moving Average Trendline



Trendlines for Switzerland

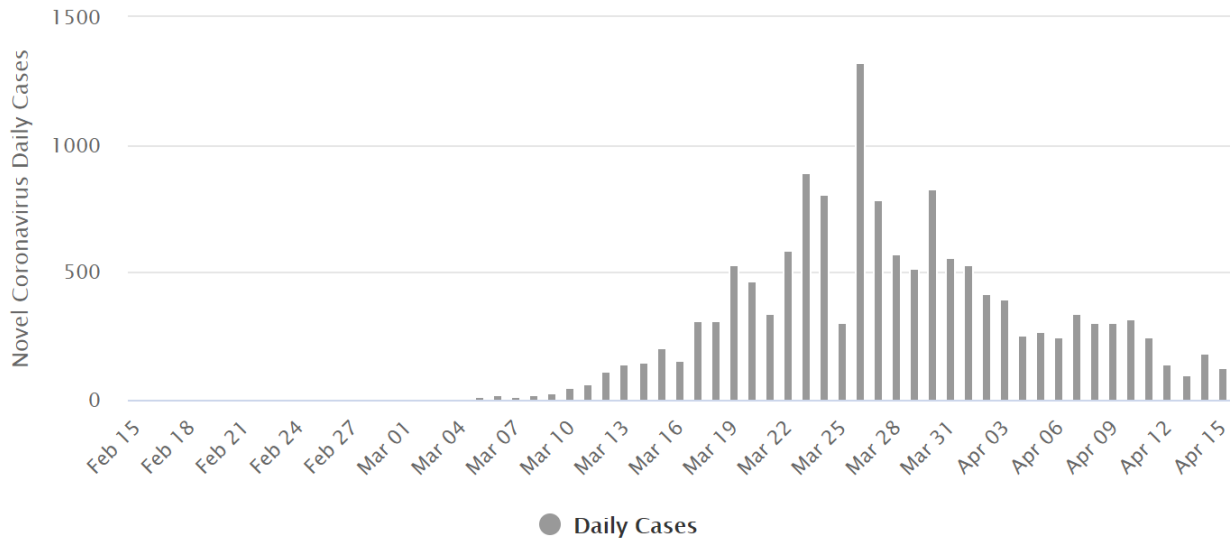
Switzerland Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in Austria

Daily New Cases

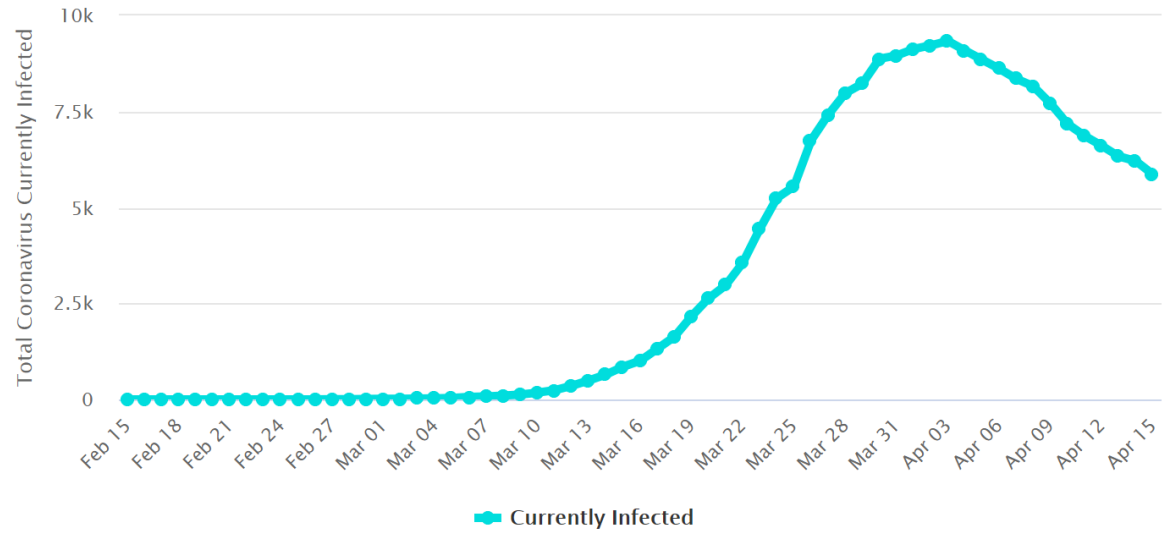
Cases per Day
Data as of 0:00 GMT+0



Austria

Active Cases in Austria

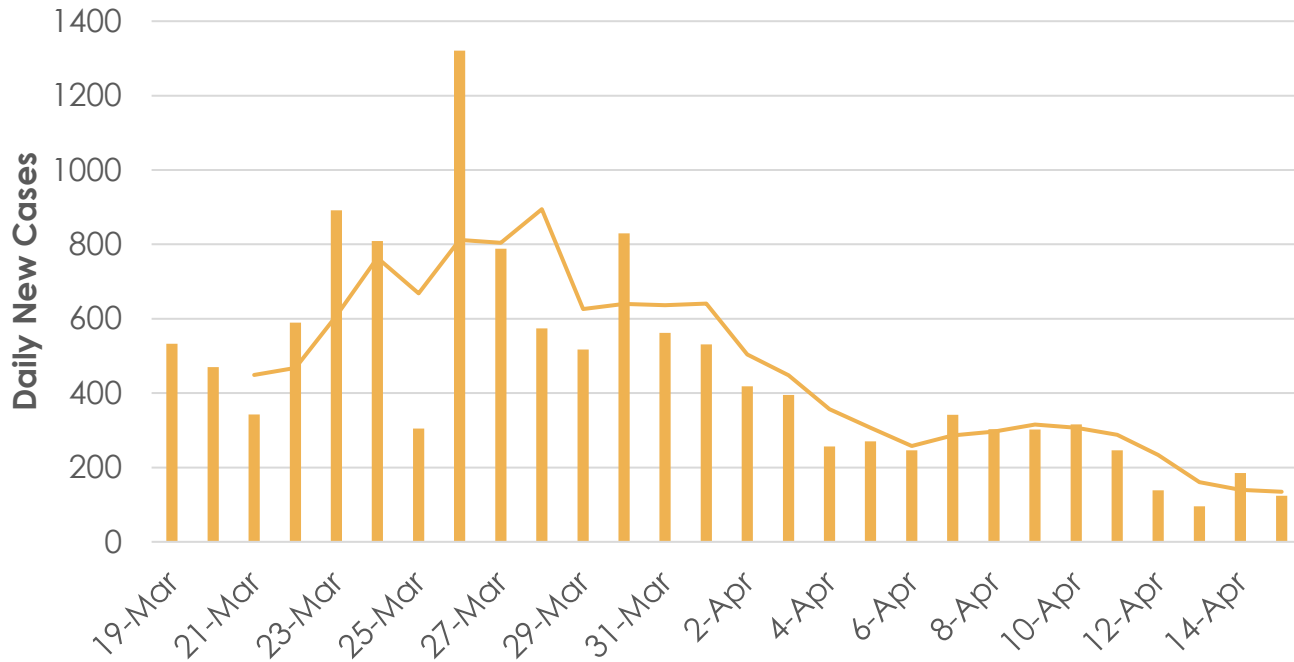
Active Cases
(Number of Infected People)



Trendlines for Austria

3-Day Moving Average Trendline

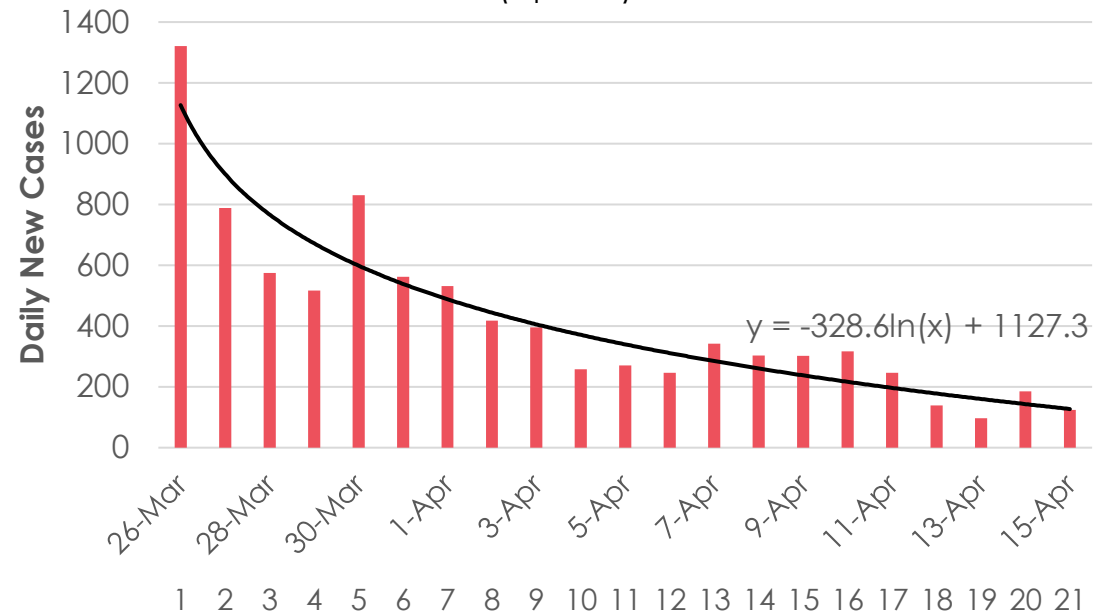
Austria 3 per. Mov. Avg. (Daily New Cases)



Austria Bar Chart of Daily New Cases from Peak till Today

Logarithmic Trendline

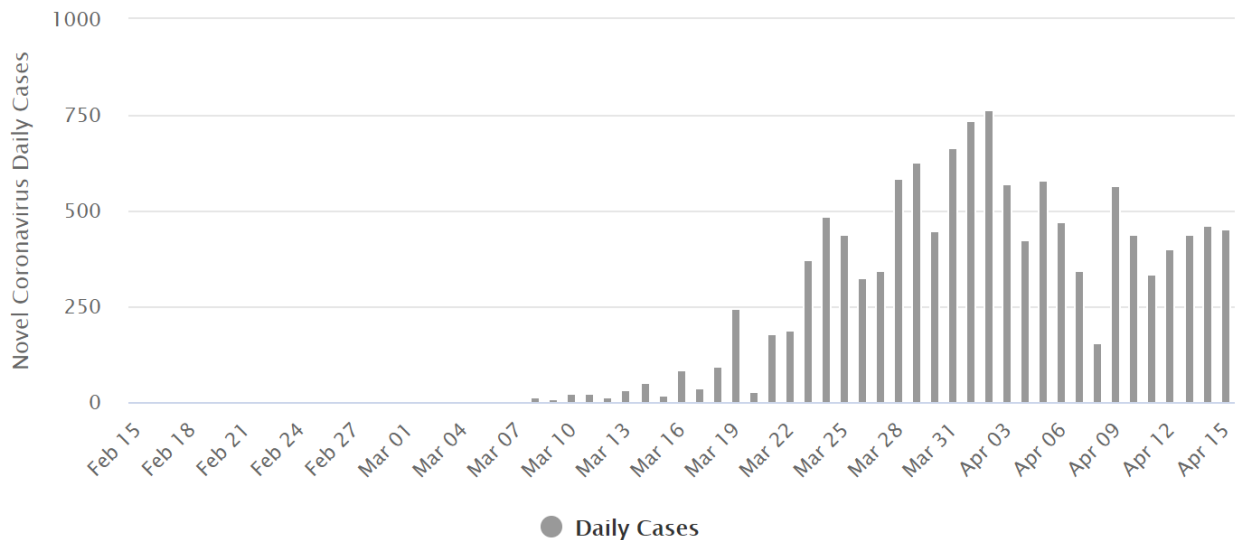
when $y = 0$; $x = 31$
(April 26)



Daily New Cases in Israel

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

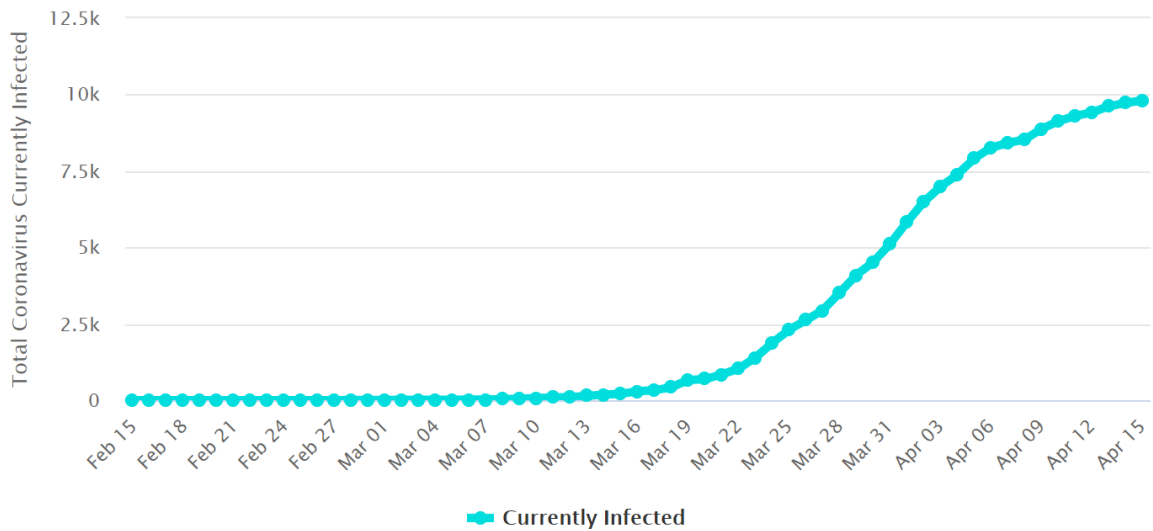


Israel

Active Cases in Israel

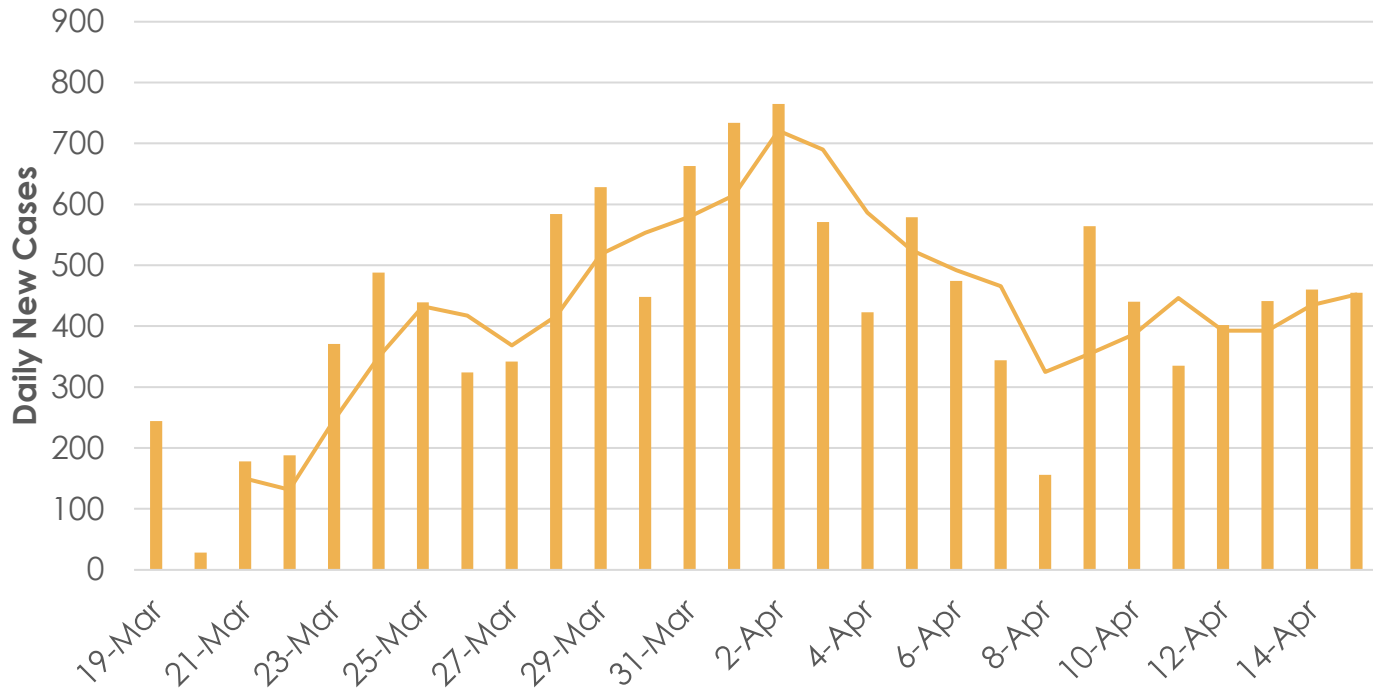
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

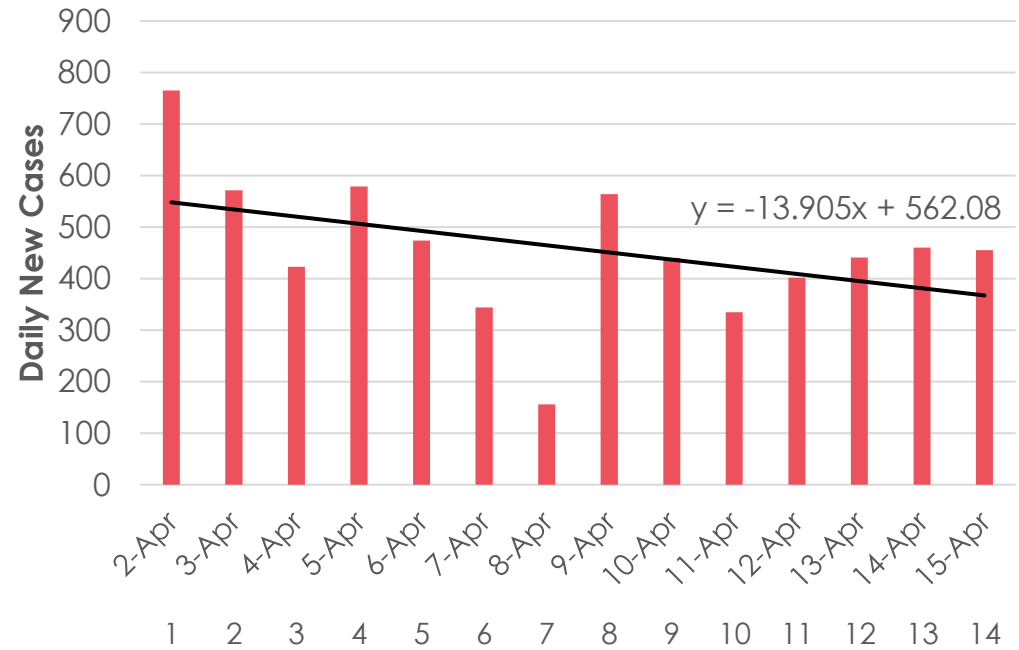
Israel 3 per. Mov. Avg. (Daily New Cases)



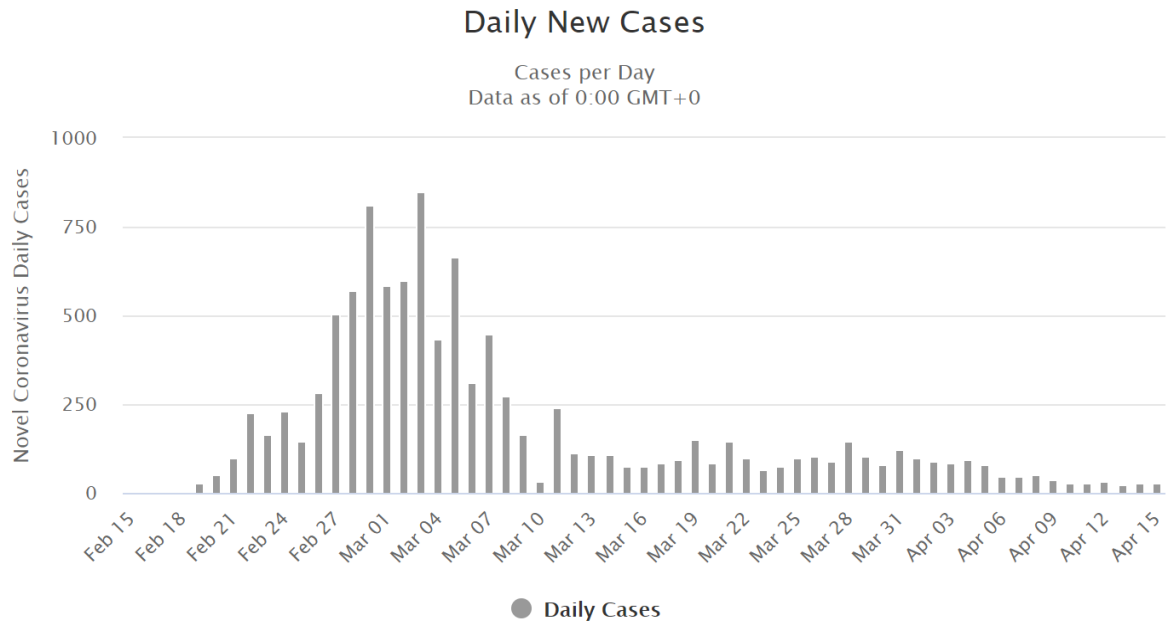
Trendlines for Israel

Israel Bar Chart of Daily New Cases from Peak till Today

Linear Trendline
when $y = 0$; $x = 40$
(May 12)

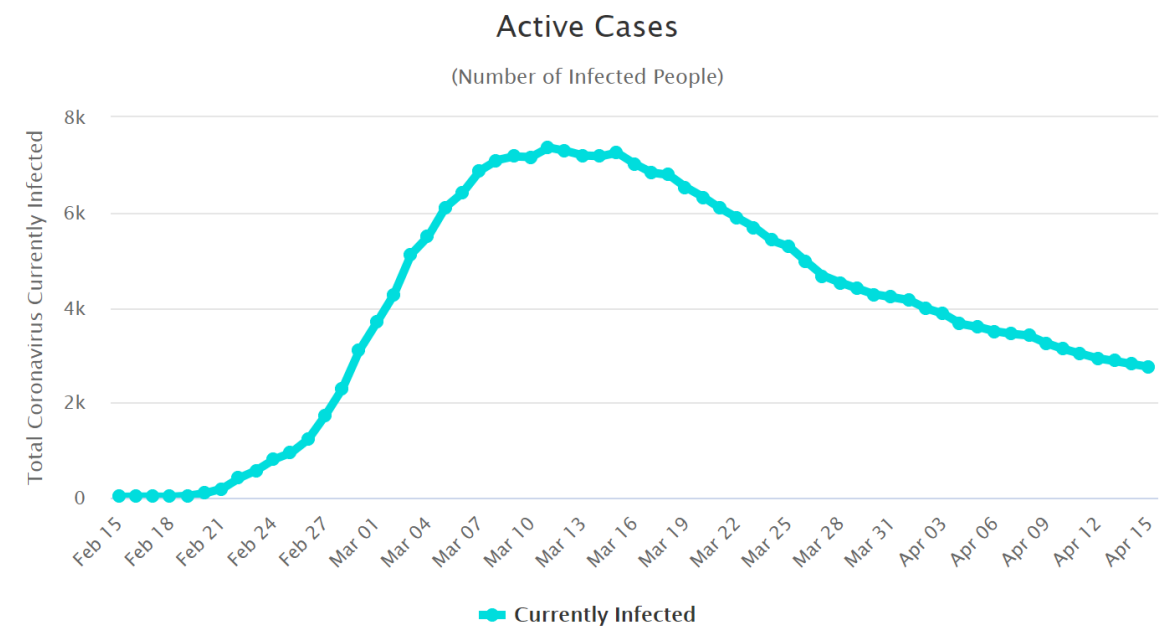


Daily New Cases in South Korea

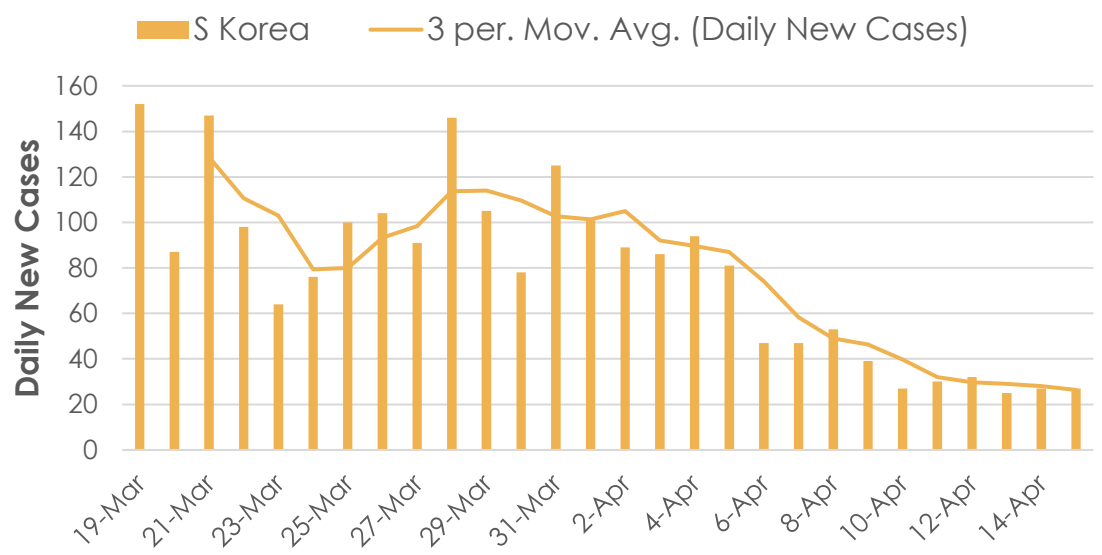


South Korea

Active Cases in South Korea



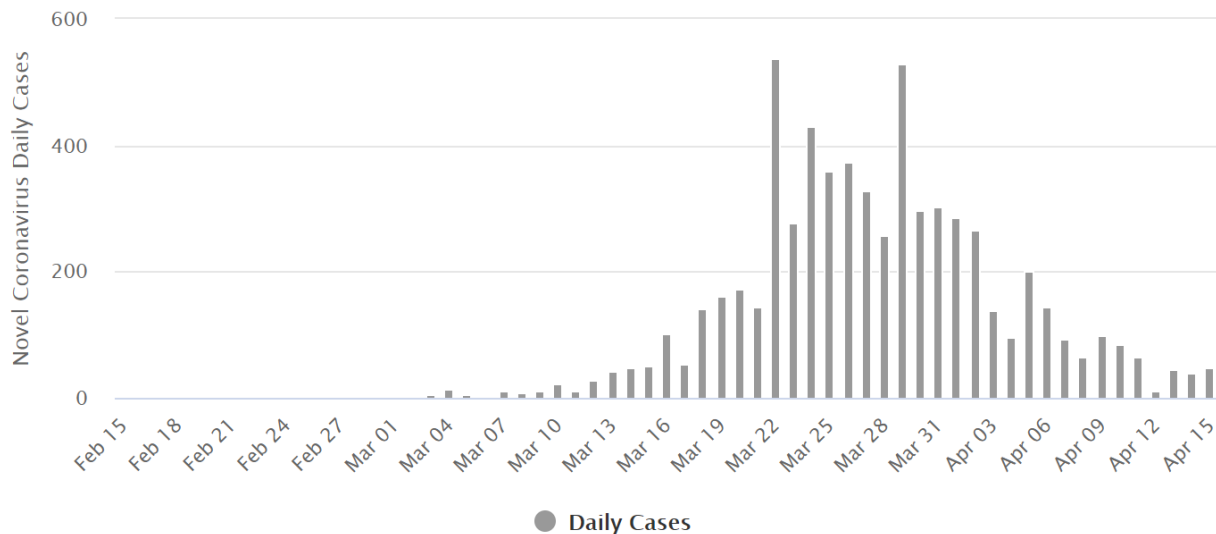
3-Day Moving Average Trendline



Daily New Cases in Australia

Daily New Cases

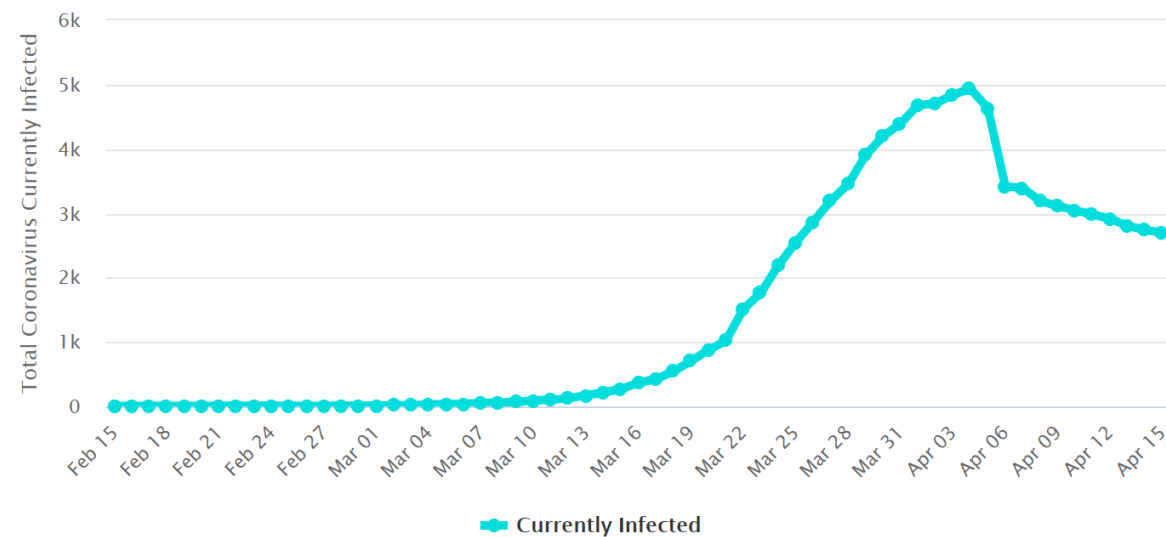
Cases per Day
Data as of 0:00 GMT+0



Australia

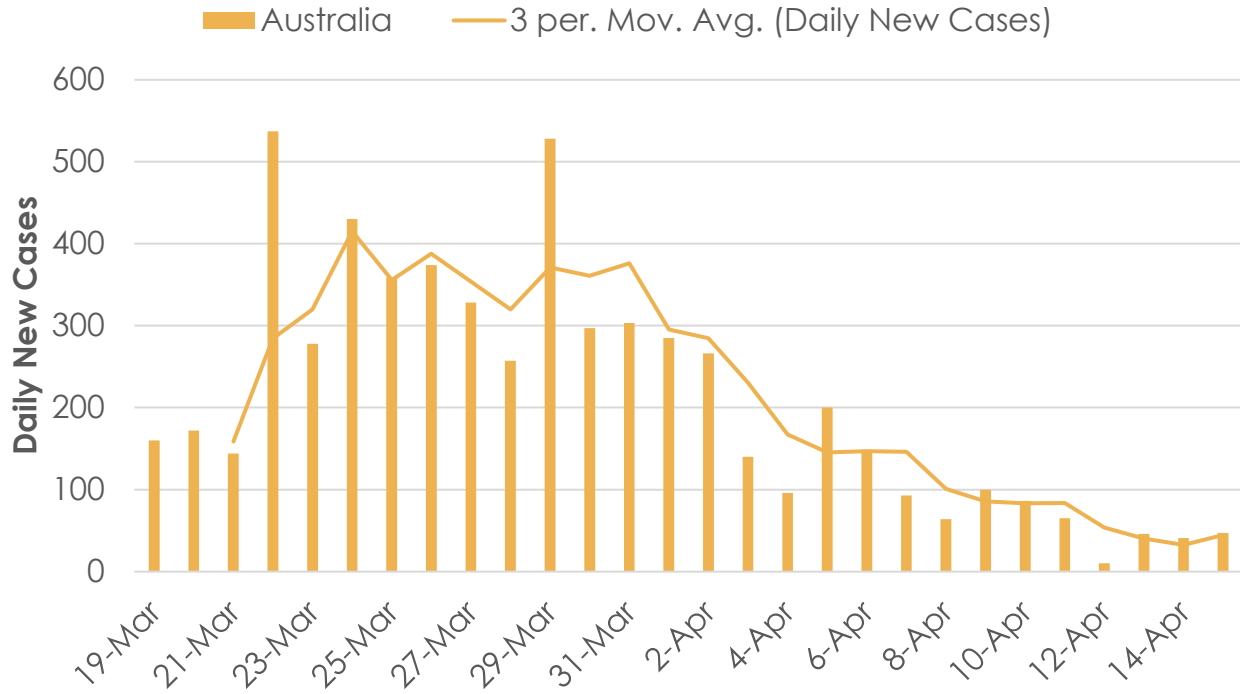
Active Cases in Australia

Active Cases
(Number of Infected People)

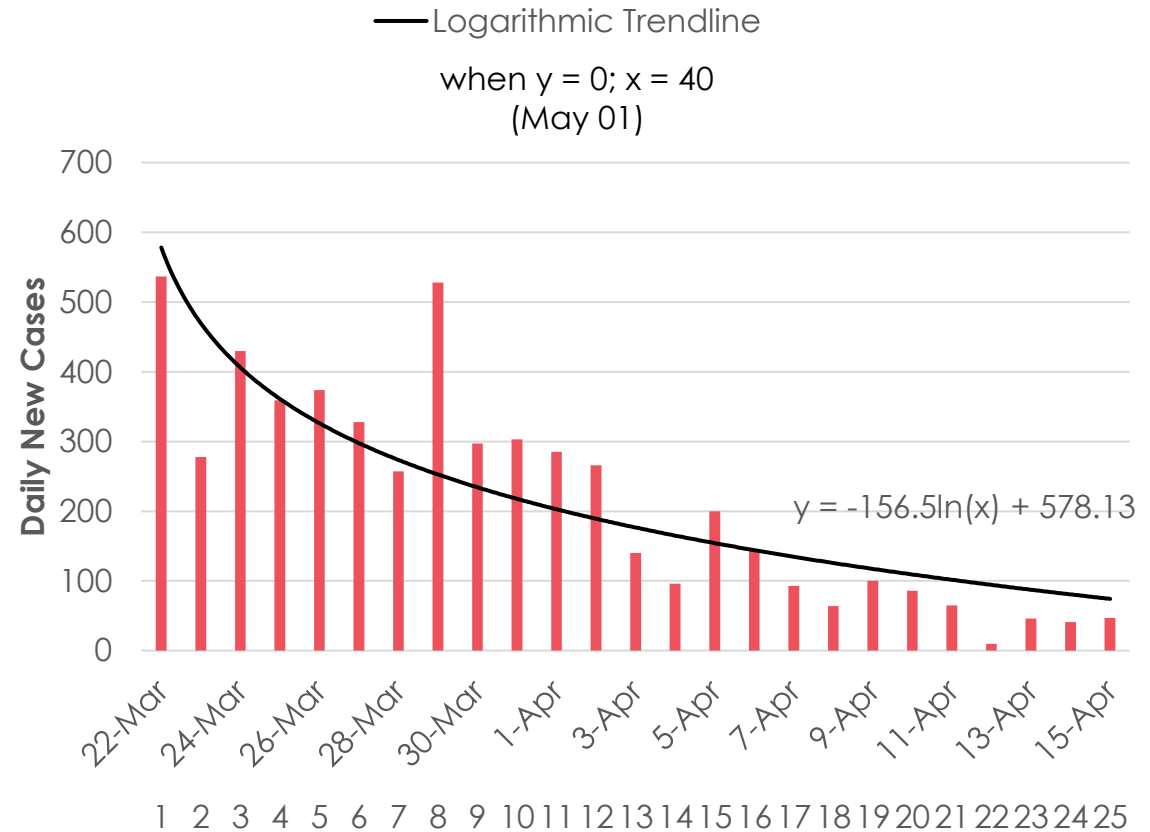


Trendlines for Australia

3-Day Moving Average Trendline

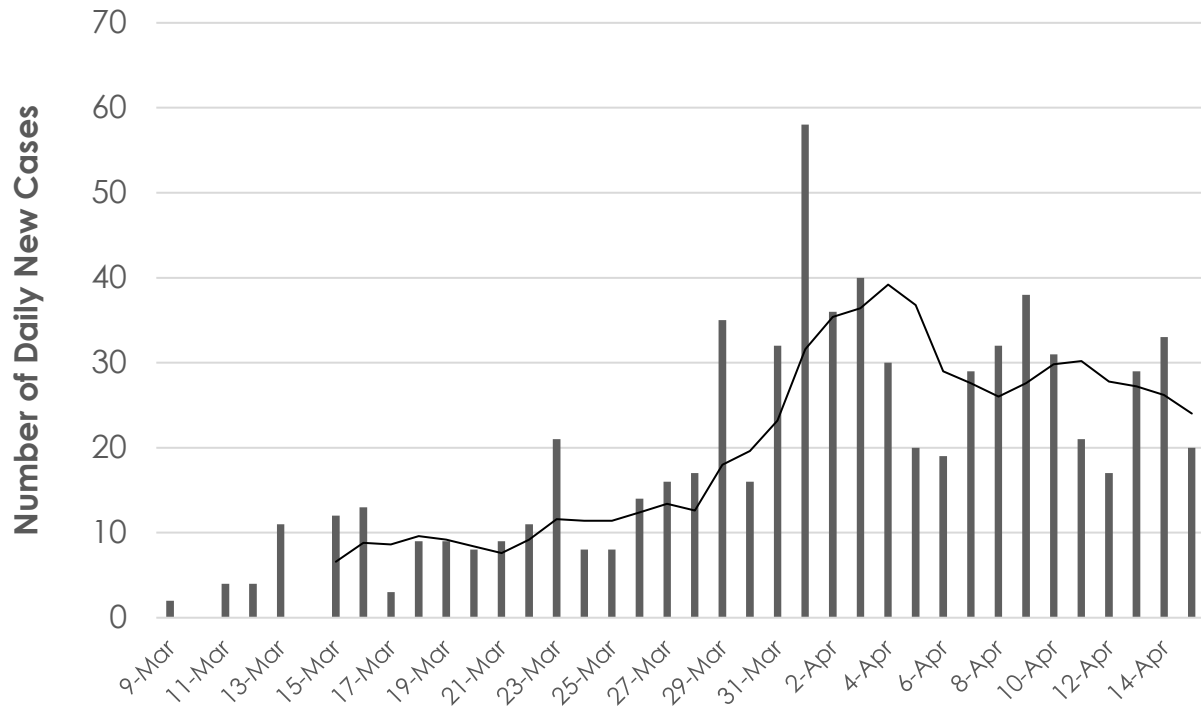


Australia Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in Cyprus

— 5 per. Mov. Avg. (Daily New Cases)

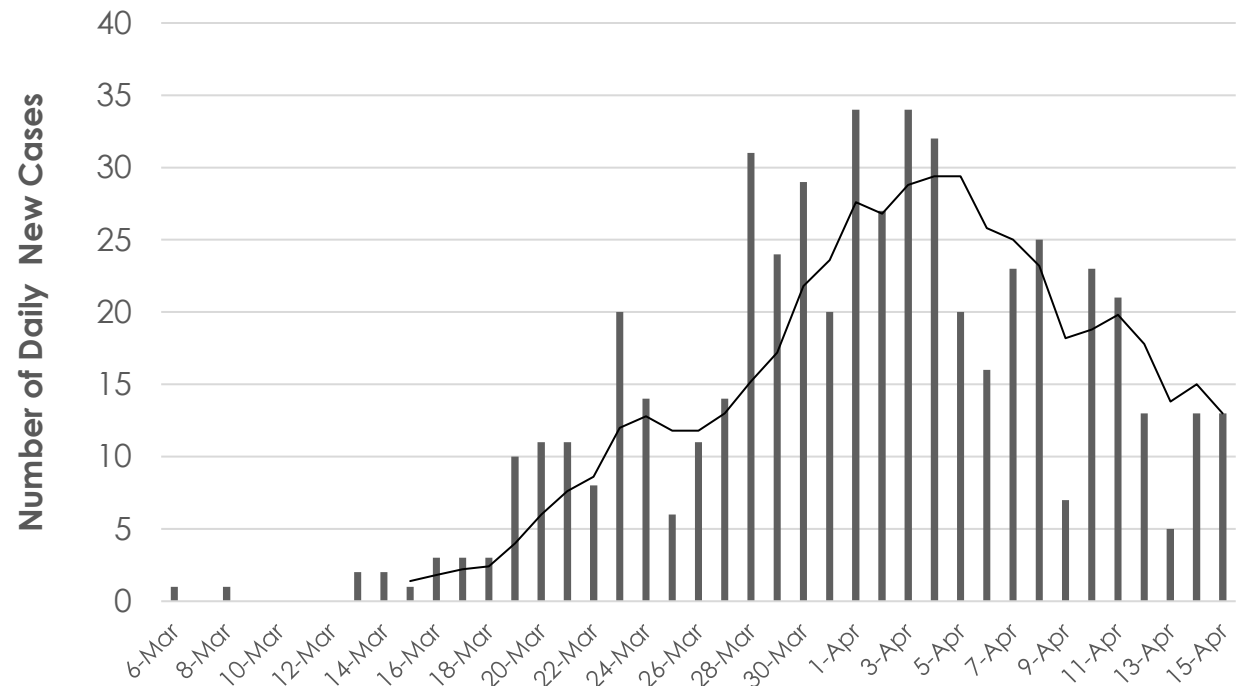


Cyprus

Correlation, r (Between Cyprus and Hawaii) = 0.561
 r is significant at $\alpha = 5\%$

Daily New Cases in Hawaii

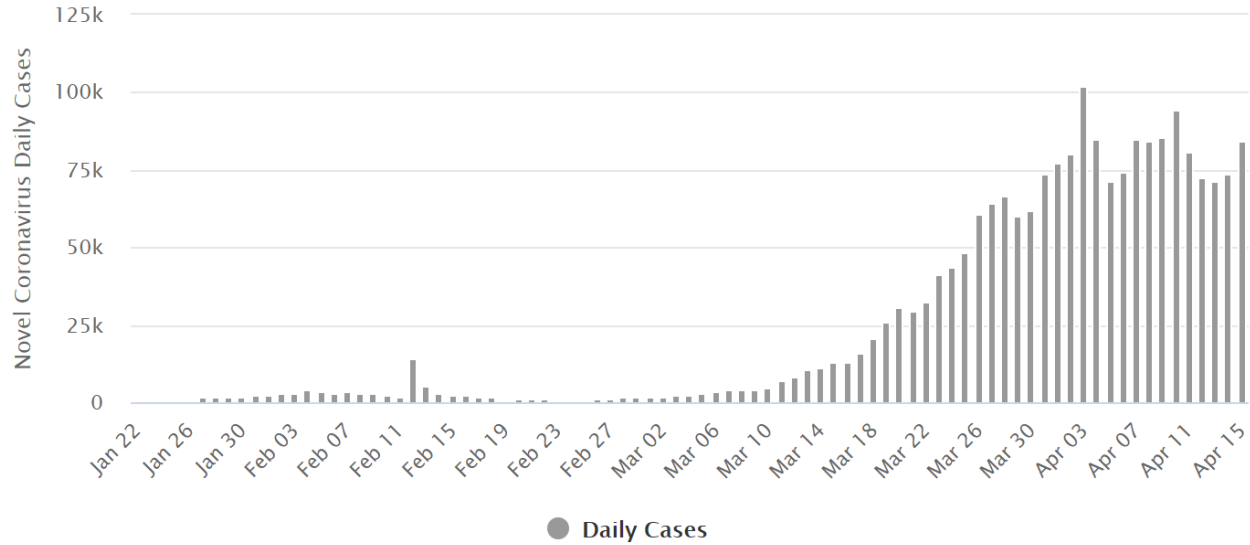
— 5 per. Mov. Avg. (Daily New Cases)



Hawaii

Daily New Cases

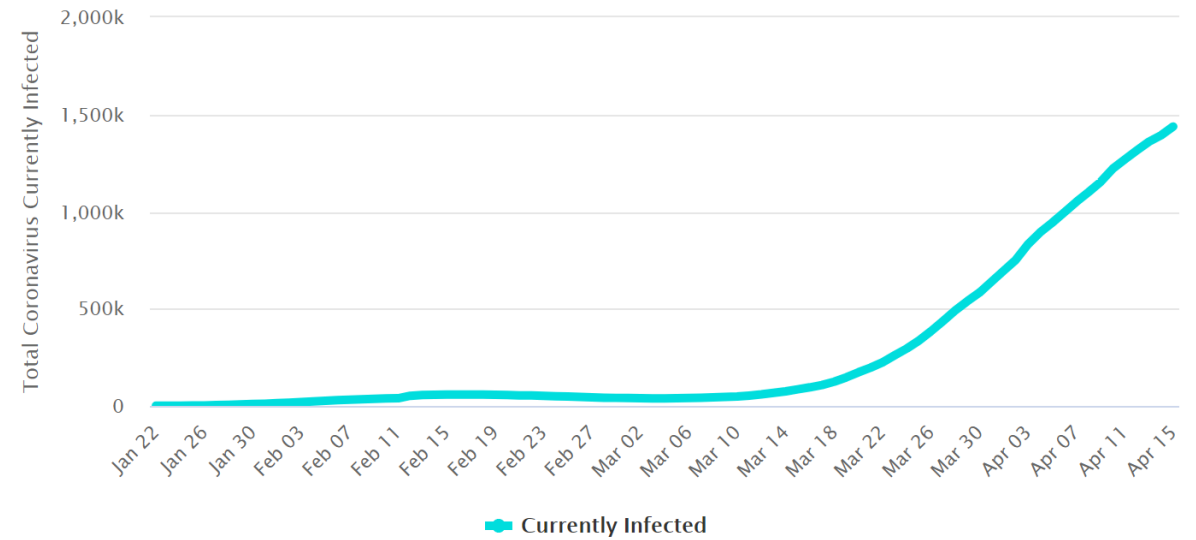
Cases per Day
Data as of 0:00 GMT+0



Worldwide

Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

Worldwide 3 per. Mov. Avg. (Daily New Cases)

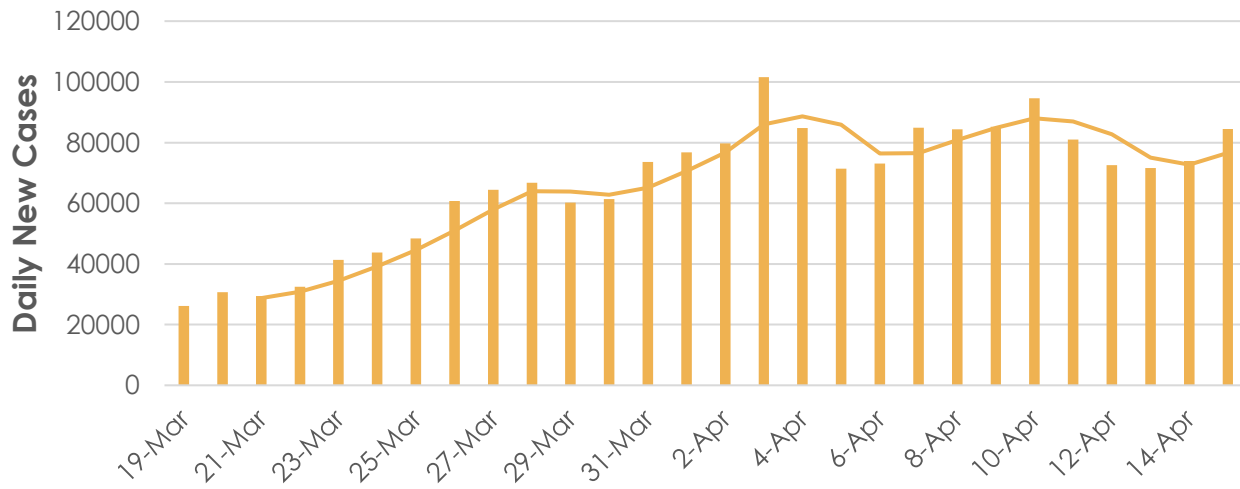


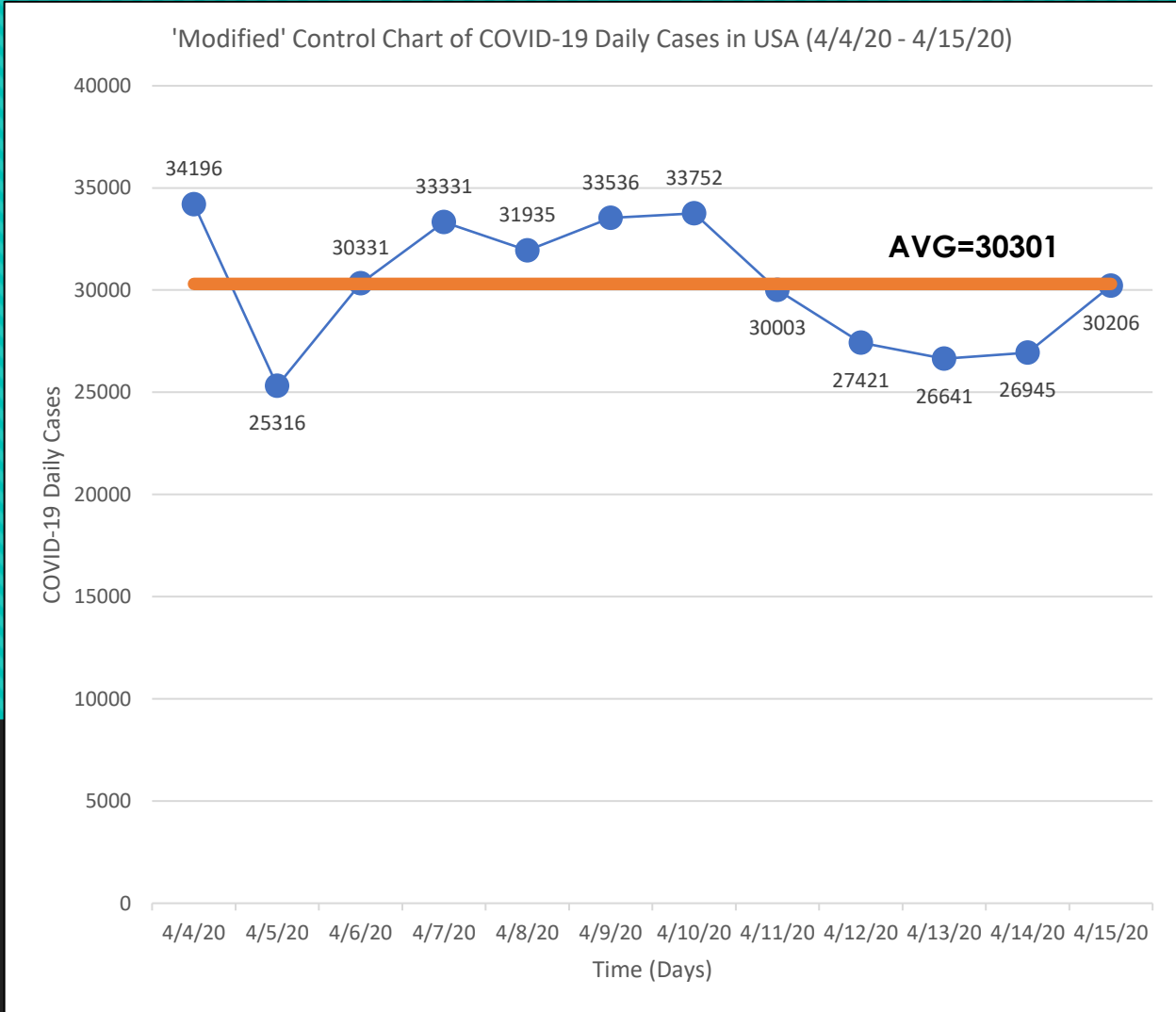
Table 1

RATIO OF THE AVERAGE NEW CASES OF RECENT THREE DAYS TO MAX DAILY PEAK

	3/22	3/23	3/24	3/25	3/26	3/27	3/28	3/29	3/30	3/31	4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8	4/9	4/10	4/11	4/12	4/13	4/14	4/15
USA	0.701	0.796	0.921	0.865	0.806	0.879	0.949	0.972	0.978	0.876	0.901	0.905	0.915	0.939	0.895	0.876	0.867	0.932	0.963	0.967	0.948	0.889	0.819	0.790	0.817
Spain	0.908	0.710	0.798	0.927	0.913	0.954	0.956	0.900	0.896	0.914	0.968	0.972	0.938	0.889	0.789	0.704	0.636	0.668	0.667	0.658	0.597	0.548	0.477	0.445	0.557
Italy	0.920	0.859	0.793	0.775	0.847	0.881	0.919	0.869	0.775	0.677	0.655	0.686	0.713	0.715	0.697	0.647	0.557	0.532	0.563	0.610	0.653	0.648	0.607	0.519	0.447
France	0.900	0.629	0.681	0.800	0.790	0.906	0.892	0.797	0.838	0.640	0.740	0.640	0.434	0.476	0.488	0.229	0.276	0.291	0.285	0.228	0.241	0.215	0.172	0.197	0.221
Germany	0.703	0.678	0.782	0.917	0.750	0.860	0.979	0.889	0.770	0.679	0.747	0.861	0.930	0.871	0.737	0.587	0.556	0.633	0.714	0.698	0.584	0.462	0.380	0.325	0.332
UK	0.777	0.859	0.715	0.883	0.784	0.747	0.873	0.909	0.878	0.893	0.767	0.892	0.975	0.931	0.796	0.759	0.753	0.730	0.761	0.711	0.701	0.737	0.571	0.571	0.545
China	0.003	0.004	0.004	0.005	0.004	0.004	0.004	0.002	0.003	0.003	0.004	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.004	0.006	0.007	0.006	0.004
Iran	0.789	0.804	0.795	0.813	0.887	0.857	0.909	0.965	0.959	0.962	0.971	0.939	0.897	0.853	0.812	0.766	0.716	0.665	0.598	0.586	0.569	0.572	0.535	0.507	0.492
Switzerland	0.778	0.761	0.721	0.819	0.722	0.730	0.761	0.722	0.716	0.605	0.703	0.695	0.718	0.655	0.544	0.491	0.418	0.522	0.573	0.550	0.437	0.326	0.272	0.198	0.220
Austria	0.793	0.682	0.856	0.750	0.614	0.609	0.677	0.474	0.485	0.482	0.485	0.381	0.339	0.270	0.233	0.195	0.217	0.225	0.239	0.232	0.218	0.177	0.121	0.106	0.102
Israel	0.538	0.662	0.715	0.887	0.855	0.755	0.713	0.825	0.881	0.874	0.838	0.942	0.902	0.766	0.685	0.643	0.609	0.424	0.464	0.505	0.583	0.513	0.513	0.568	0.591
S Korea	0.130	0.121	0.093	0.094	0.110	0.116	0.134	0.134	0.129	0.121	0.119	0.123	0.108	0.105	0.102	0.087	0.069	0.058	0.054	0.047	0.038	0.035	0.034	0.033	0.031
Australia	0.529	0.595	0.773	0.662	0.722	0.659	0.595	0.691	0.672	0.700	0.549	0.530	0.429	0.312	0.271	0.274	0.272	0.187	0.160	0.155	0.156	0.100	0.075	0.060	0.083
Cyprus	0.718	0.651	0.635	0.587	0.476	0.603	0.746	0.648	0.648	0.790	0.609	0.724	0.770	0.609	0.517	0.397	0.391	0.460	0.569	0.580	0.517	0.397	0.385	0.454	0.471
Hawaii	0.909	0.650	0.700	0.667	0.517	0.517	0.602	0.742	0.903	0.785	0.814	0.794	0.931	0.912	0.843	0.667	0.578	0.627	0.539	0.539	0.500	0.559	0.382	0.304	0.304
Worldwide	0.950	0.832	0.896	0.919	0.839	0.898	0.959	0.956	0.941	0.884	0.919	0.963	0.847	0.873	0.846	0.753	0.753	0.796	0.836	0.867	0.856	0.814	0.739	0.716	0.755

COVID-19 'MODIFIED' Control Chart Analysis

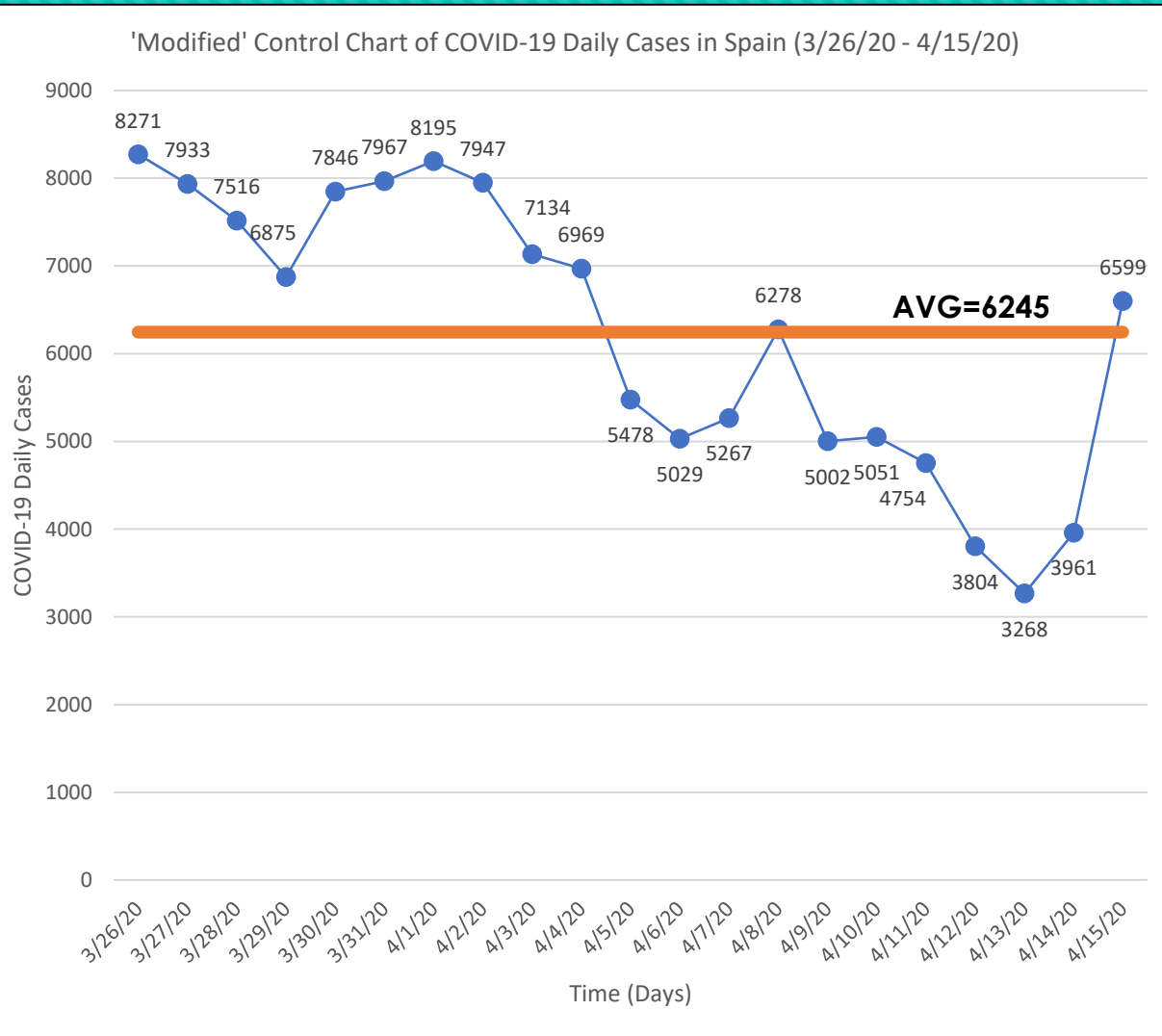
USA



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in USA.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in USA.

Spain

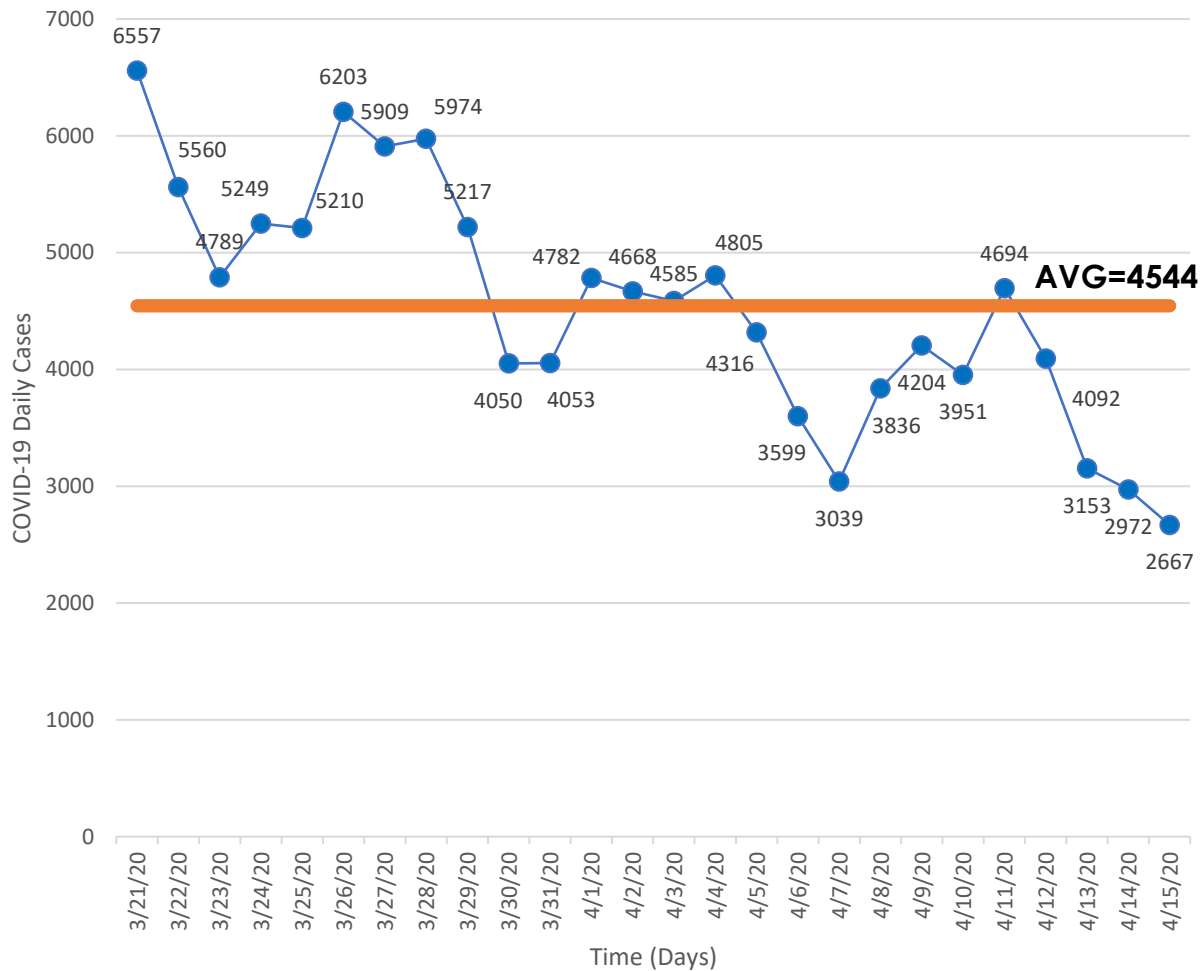


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (4/12/20 - 4/14/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (4/10/20 - 4/14/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Spain. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
 - Nine consecutive points (3/26/20 - 4/3/20) are all on one side (above) of the centerline. This was a bad 'out-of-control' pattern.

Italy

'Modified' Control Chart of COVID-19 Daily Cases in Italy (3/21/20 - 4/15/20)

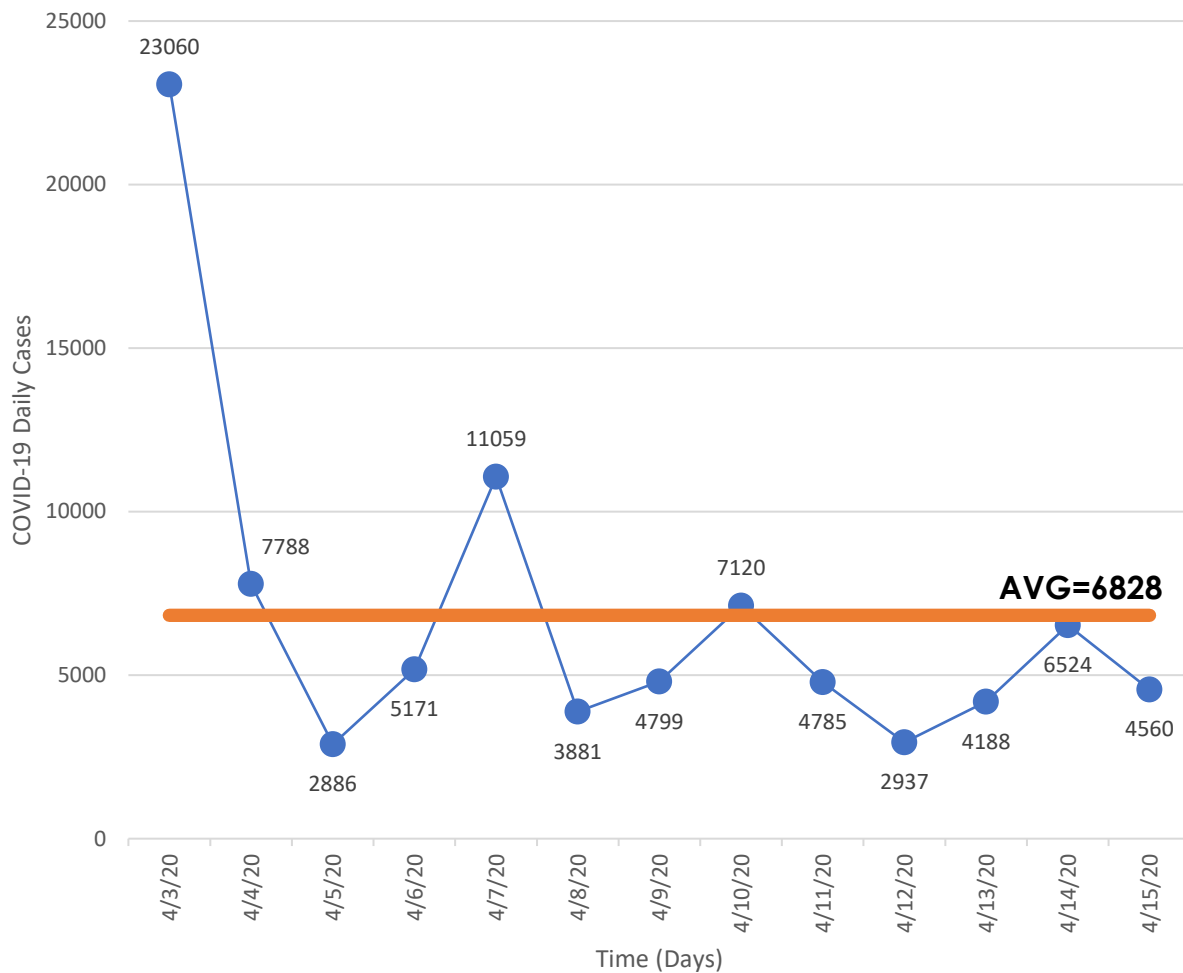


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Italy. The linear trend line has a downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last four points (4/12/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Italy. A good 'out-of-control' sign. The linear trend line has a remarkable downward slope.
- Nine successive points are on one side of the centerline.
 - The nine consecutive points (3/21/20 - 3/29/20) are all on one side (above) of the centerline. This was not a good 'out-of-control' pattern.

France

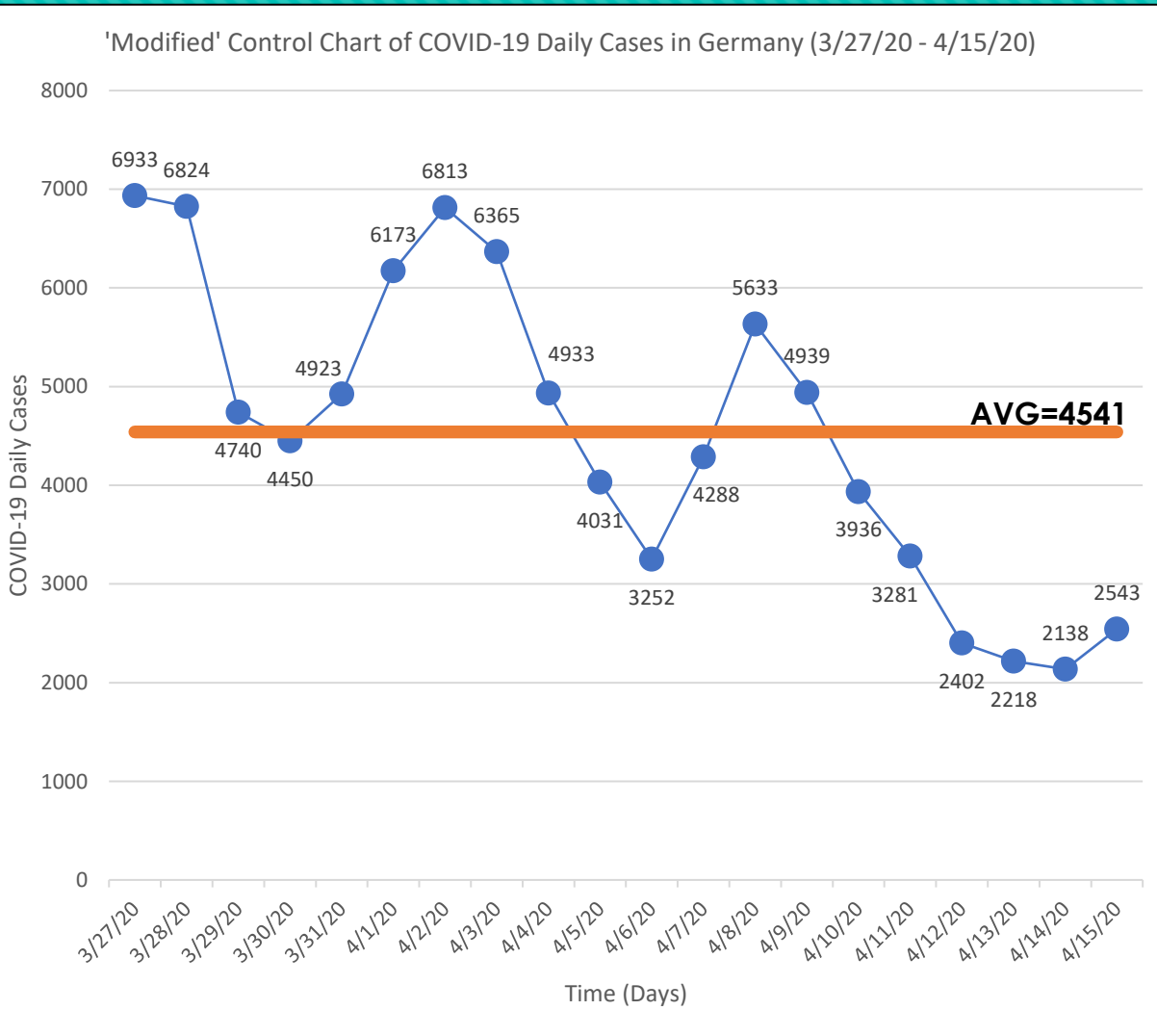
'Modified' Control Chart of COVID-19 Daily Cases in France (4/3/20 - 4/15/20)



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in France.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in France. A good 'out-of-control' sign.

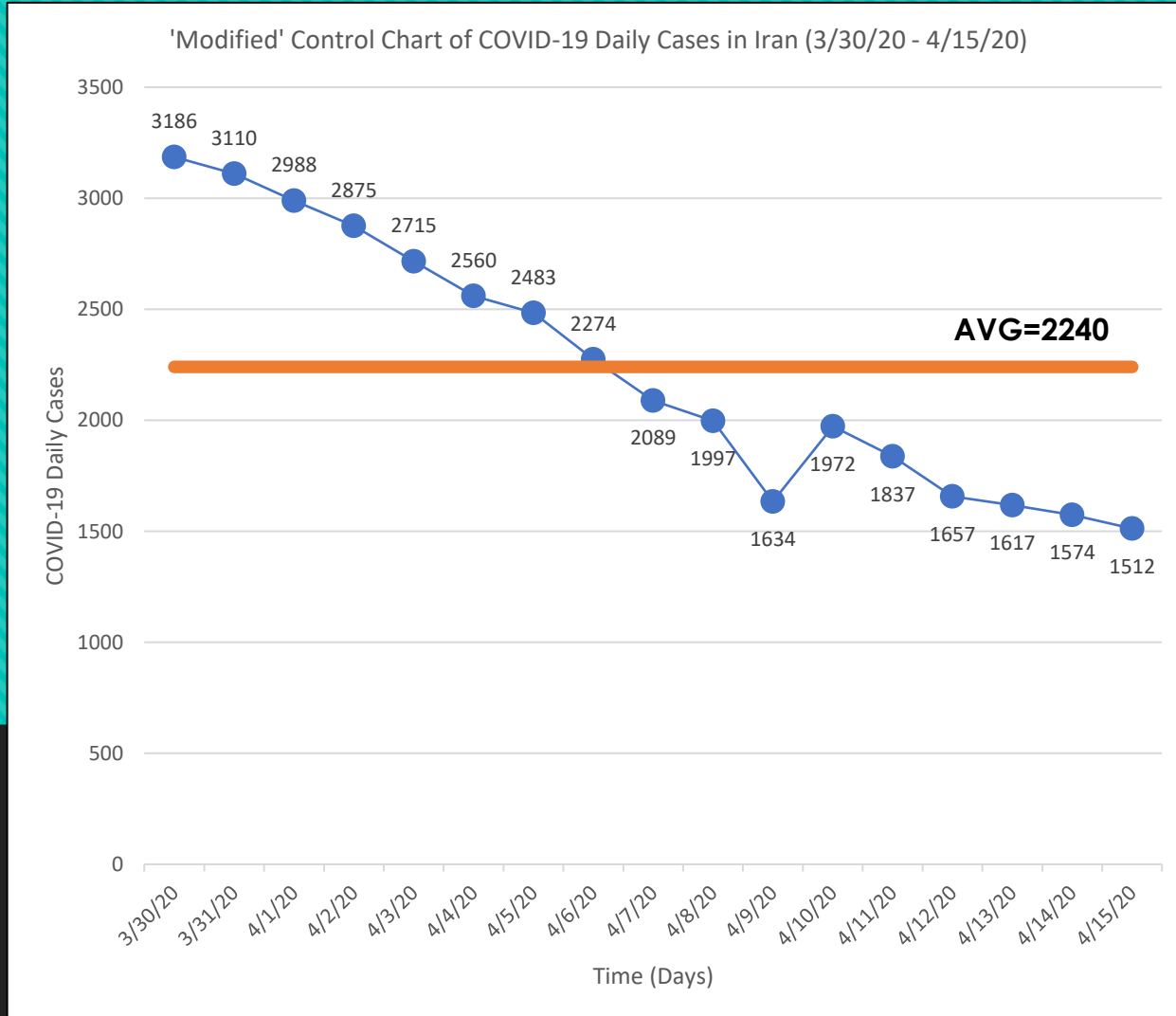
Germany



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Germany. A good 'out-of-control' sign. The linear trend line has a downward slope.
- There are six consecutive points, increasing or decreasing.
 - There are six consecutive points (4/8/20 - 4/15/20) decreasing which indicates a good 'out-of-control' sign.

Iran

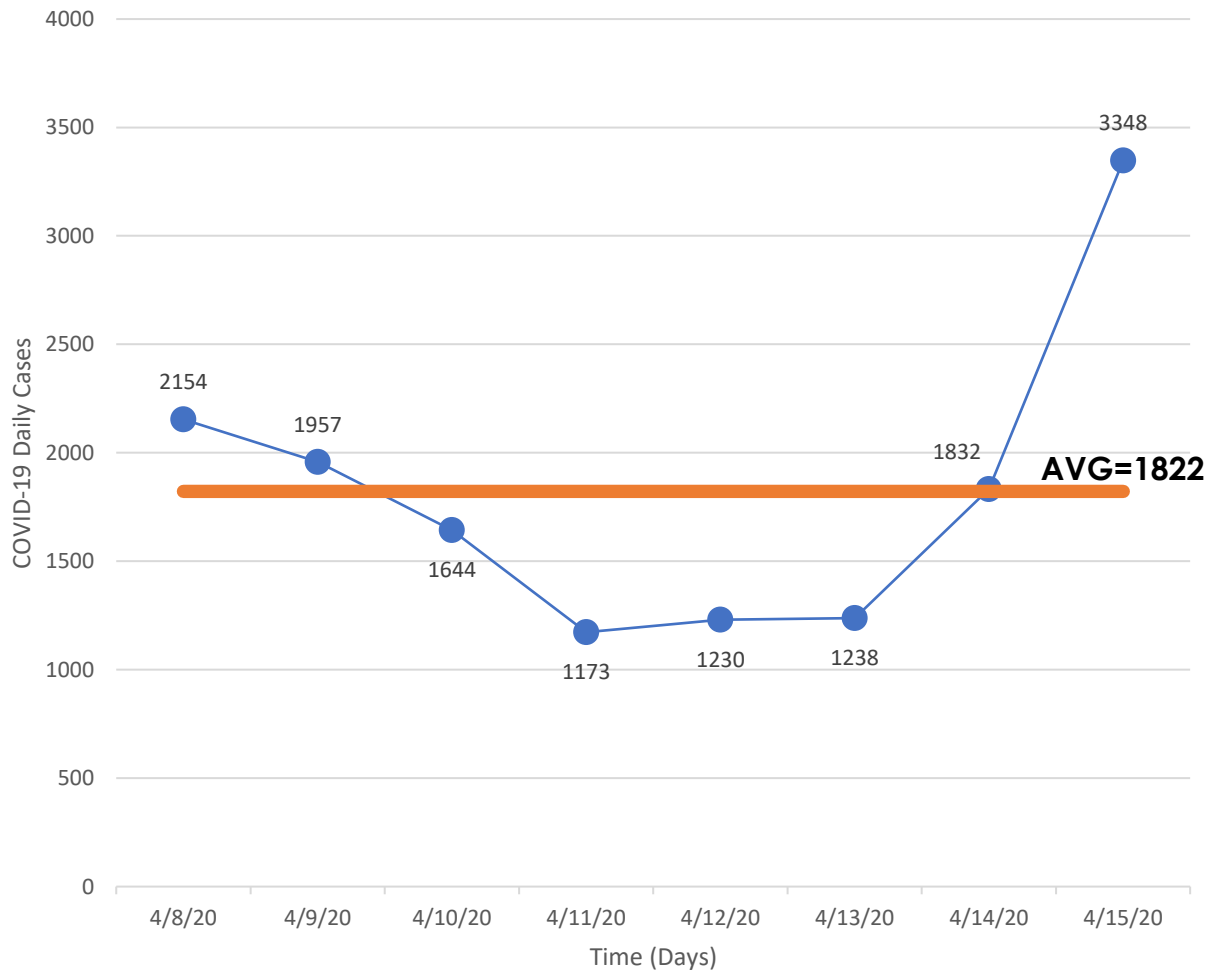


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Iran. The linear trend line has a remarkable downward slope since 3/30/20.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Iran. A good 'out-of-control' sign. The linear trend line has a downward slope.
- There are six consecutive points, increasing or decreasing.
 - Six consecutive points (4/3/20 - 4/9/20) are decreasing, which indicates a good 'out-of-control' sign.

Brazil

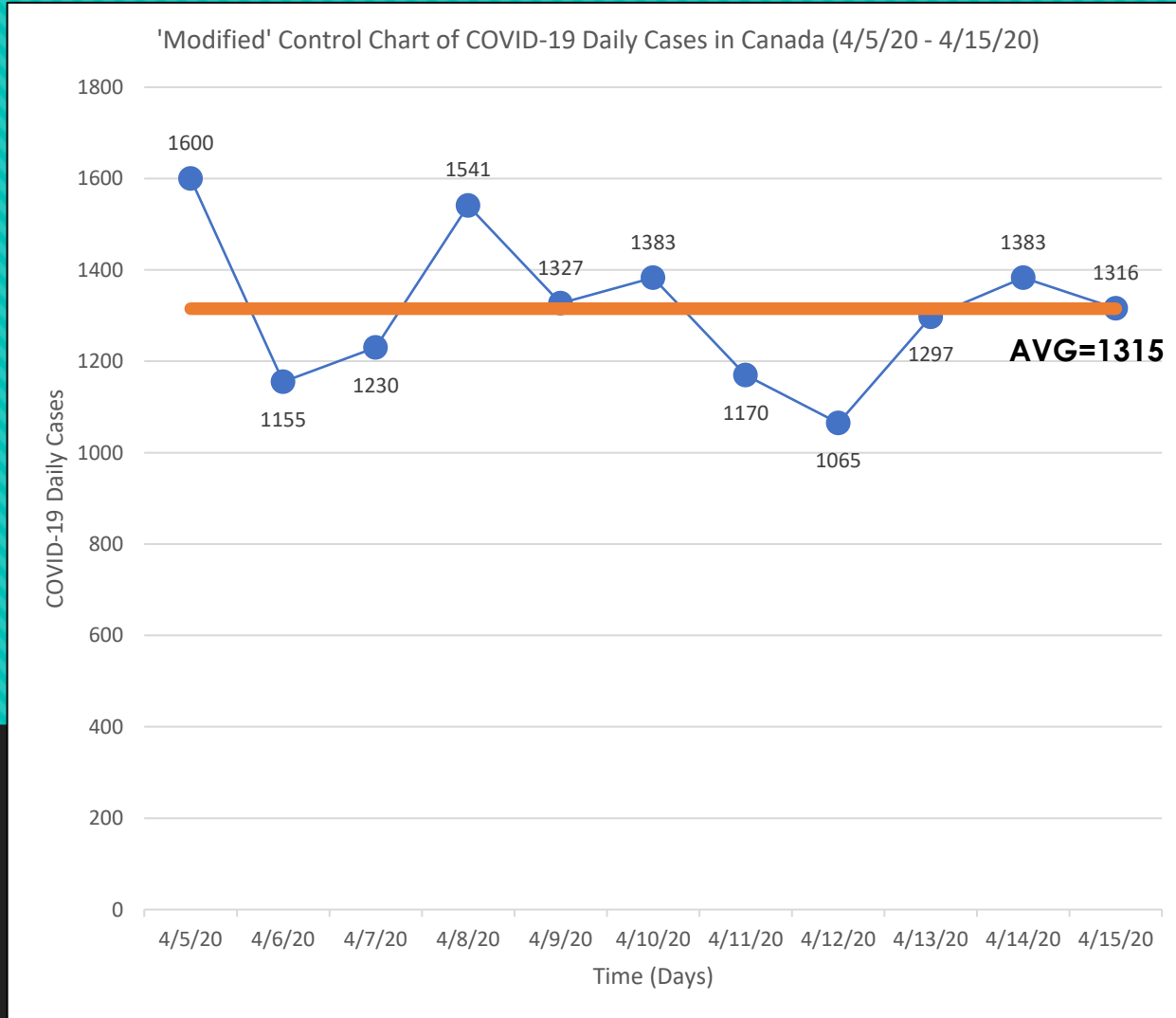
'Modified' Control Chart of COVID-19 Daily Cases in Brazil (4/8/20 - 4/15/20)



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Brazil.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (4/10/20 - 4/13/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Brazil. A good 'out-of-control' sign. However, a recent surge of daily cases has been observed for the last two days.

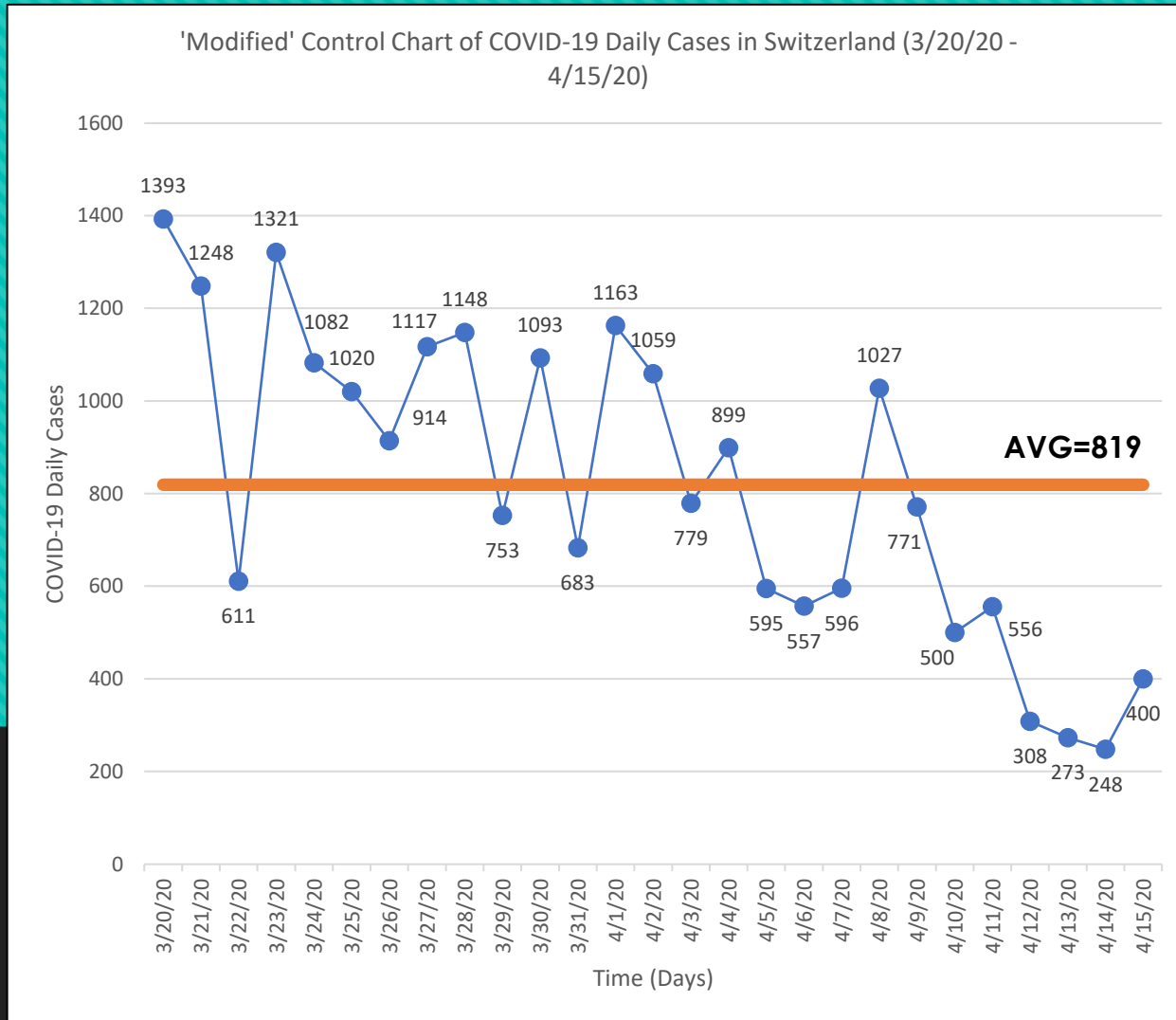
Canada



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Canada. Also, a linear trend line with a downward slope can be observed from 4/5/20.

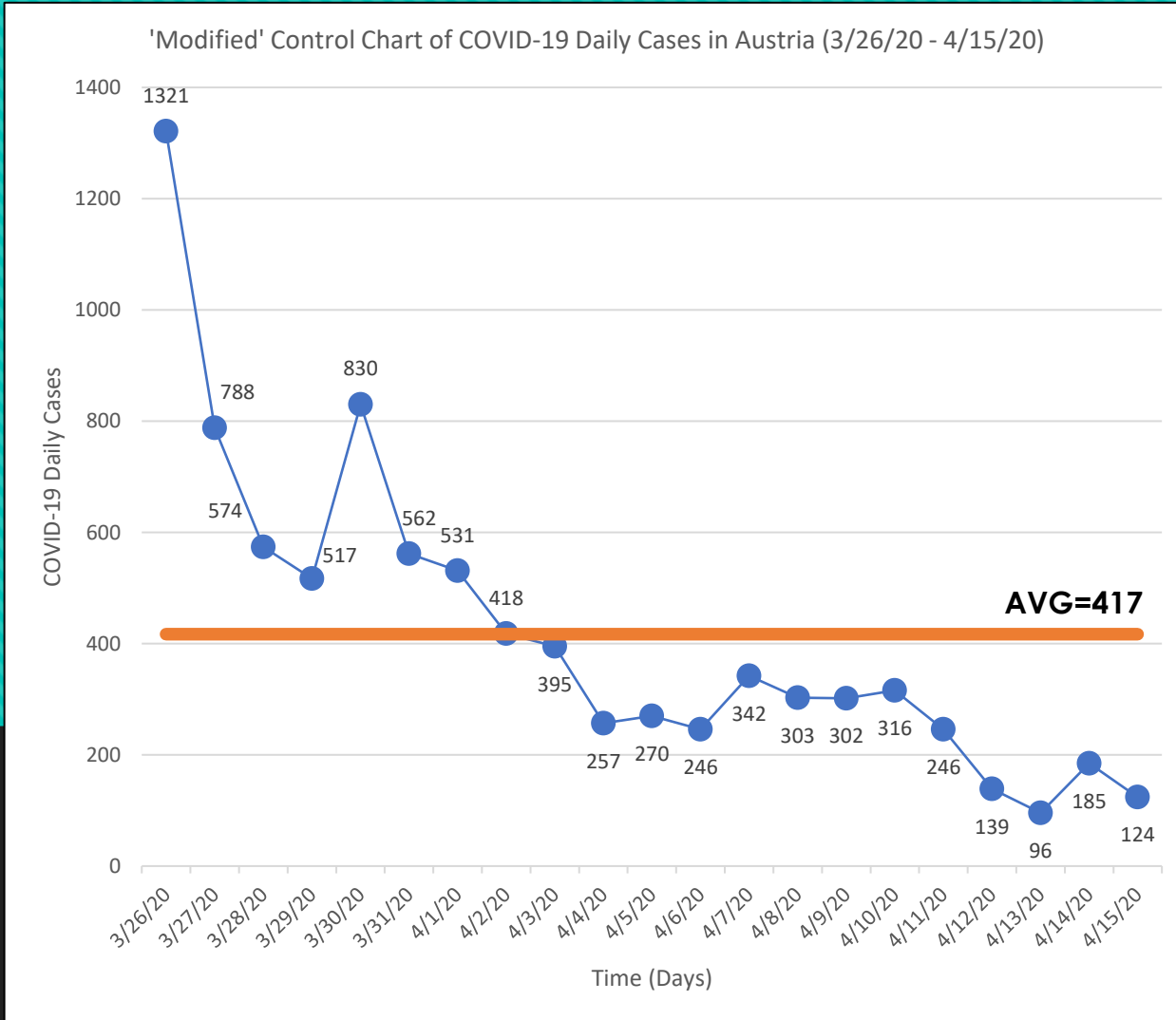
Switzerland



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Switzerland.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Switzerland. A good 'out-of-control' sign. The linear trend line has a downward slope.

Austria

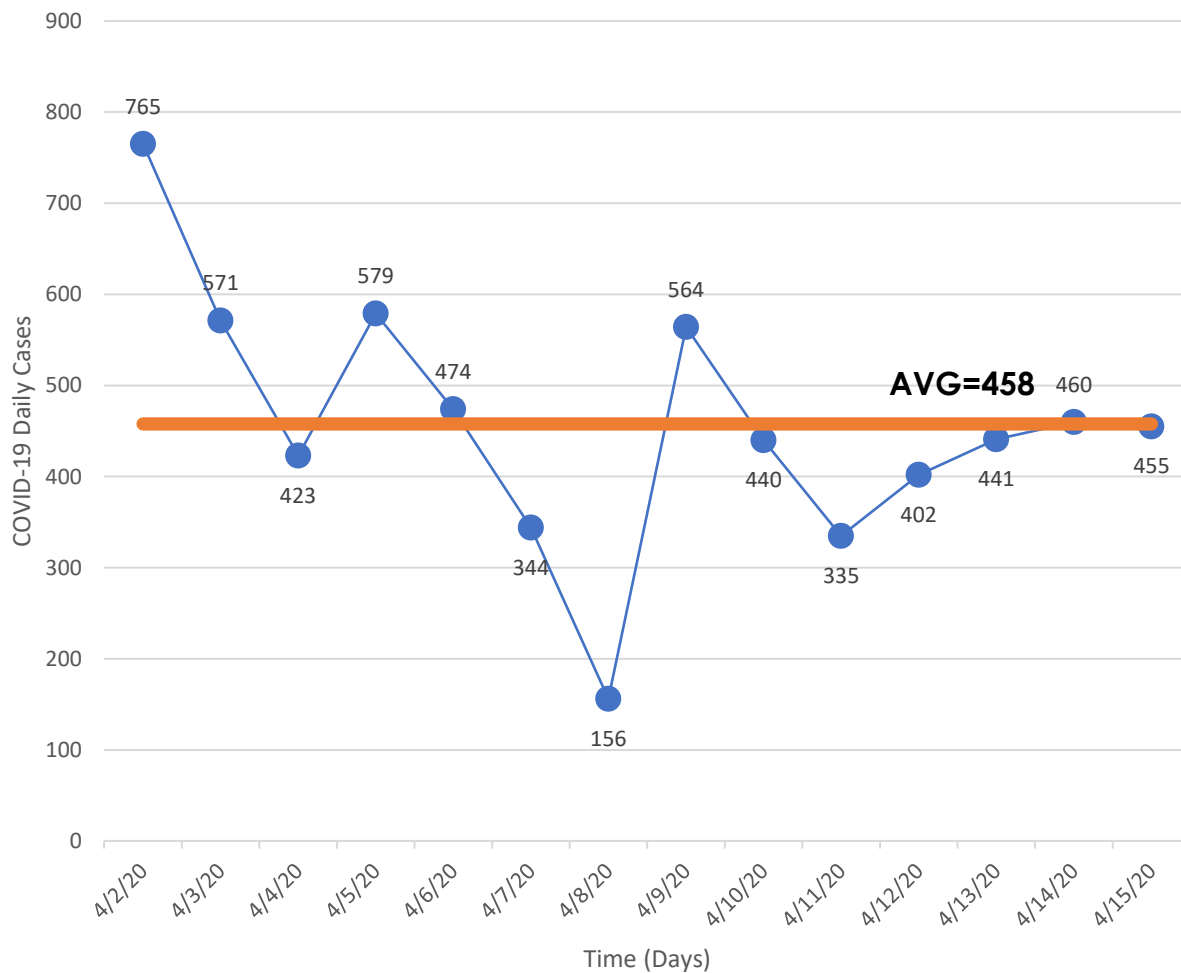


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Austria.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Austria. A good 'out-of-control' sign. The linear trend line has a downward slope.
- Nine successive points are on one side of the centerline.
 - Nine consecutive points (4/7/20 - 4/15/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Austria are stabilizing in a positive direction.

Israel

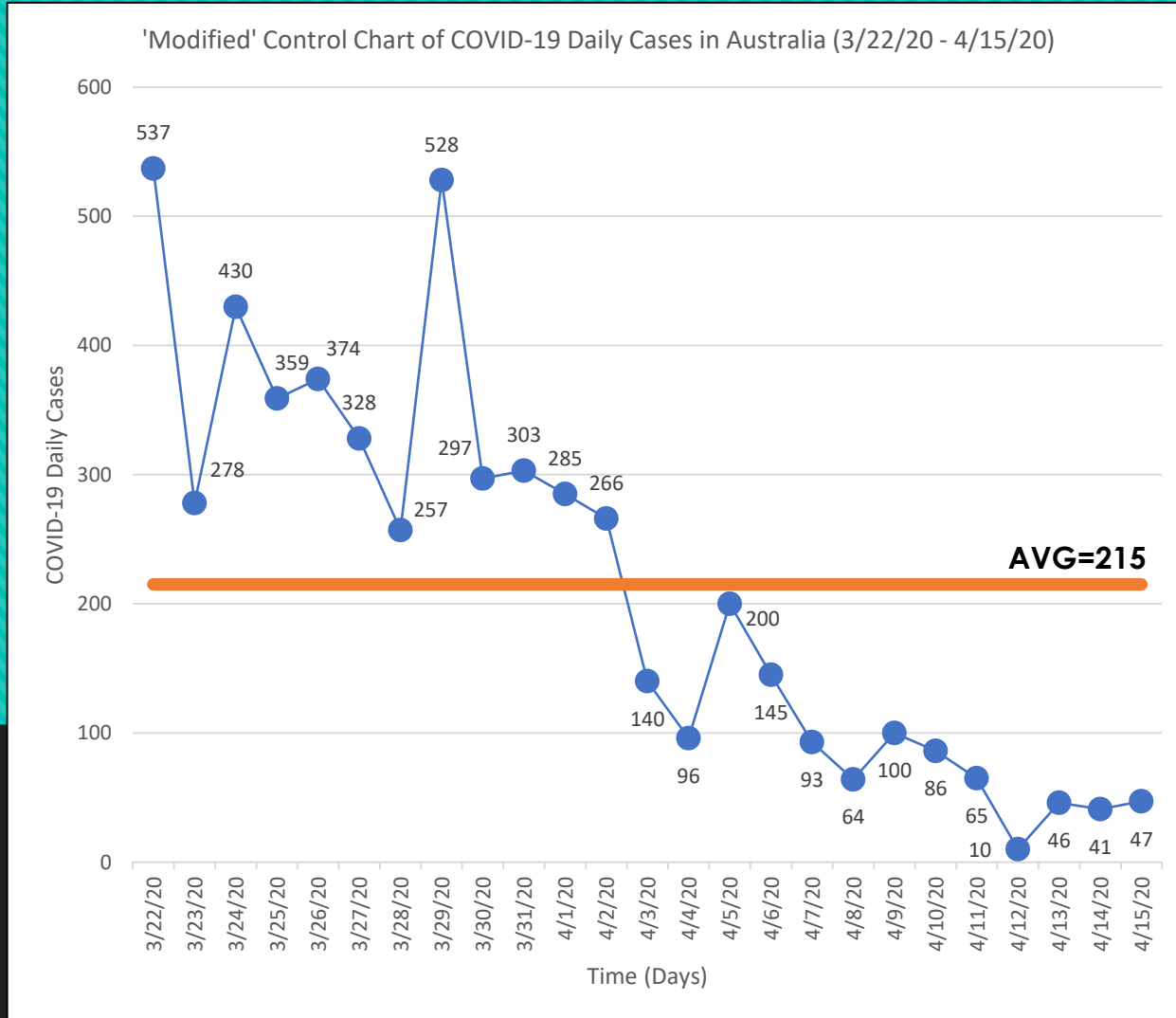
'Modified' Control Chart of COVID-19 Daily Cases in Israel (4/2/20 - 4/15/20)



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (4/12/20 - 4/13/20 and 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Israel.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (4/11/20 - 4/13/20 and 4/15/20) are below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Israel. A good 'out-of-control' sign.

Australia



'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/13/20 - 4/15/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Australia.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/11/20 - 4/15/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Australia. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
 - Nine consecutive points (4/7/20 - 4/15/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Australia are stabilizing in a positive direction.