

COVID-19 Cases

As of Monday 4/13/2020, 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/>

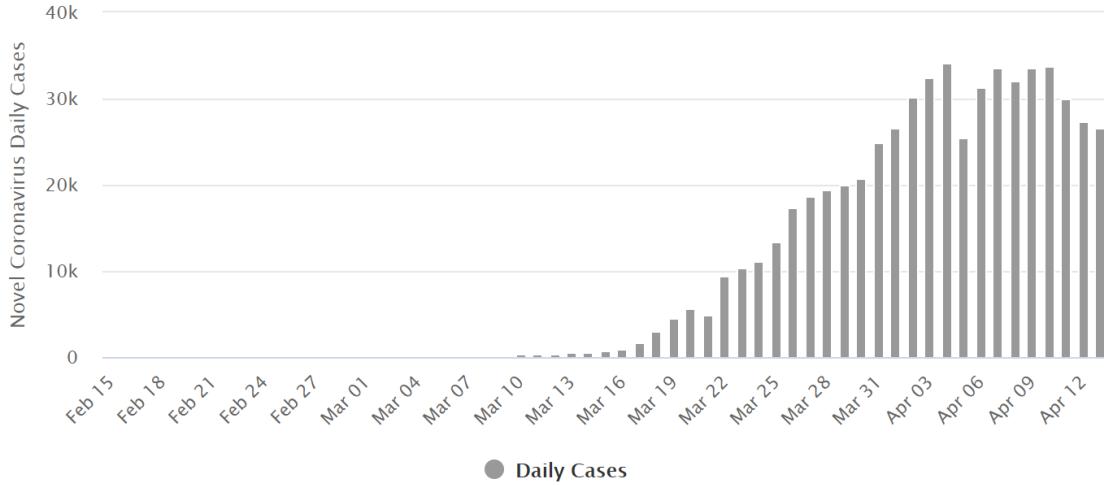
Statistics regarding daily new cases are also included for Hawaii.

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

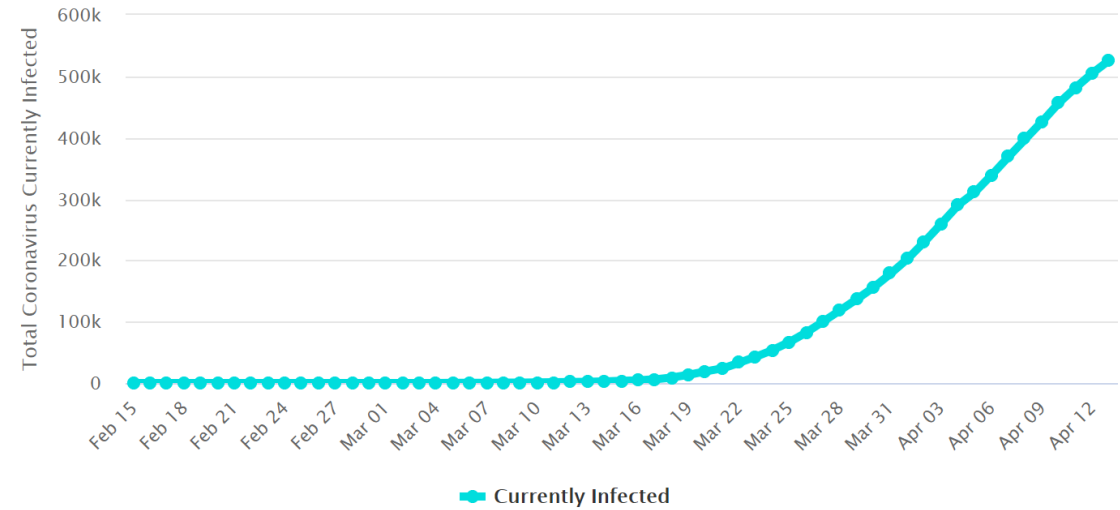


1. USA

Active Cases in the United States

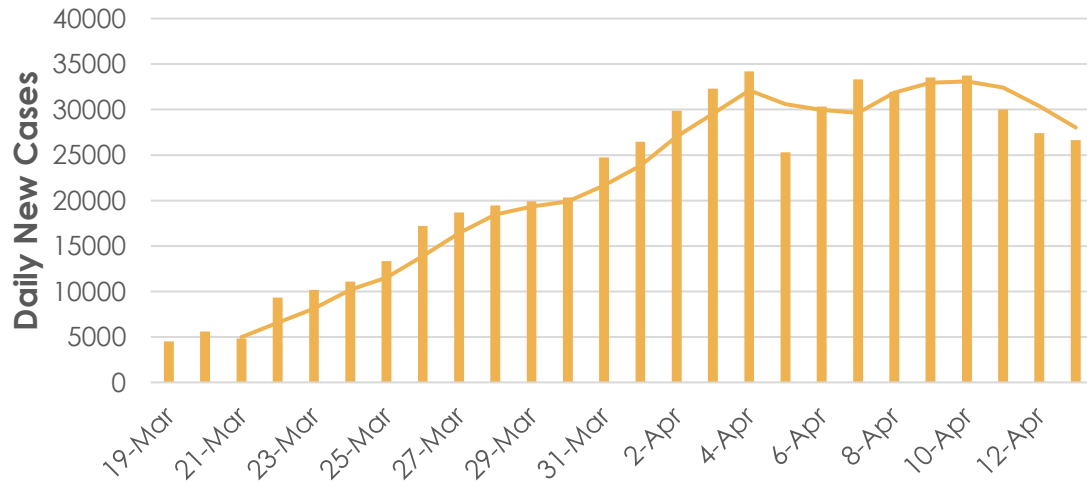
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

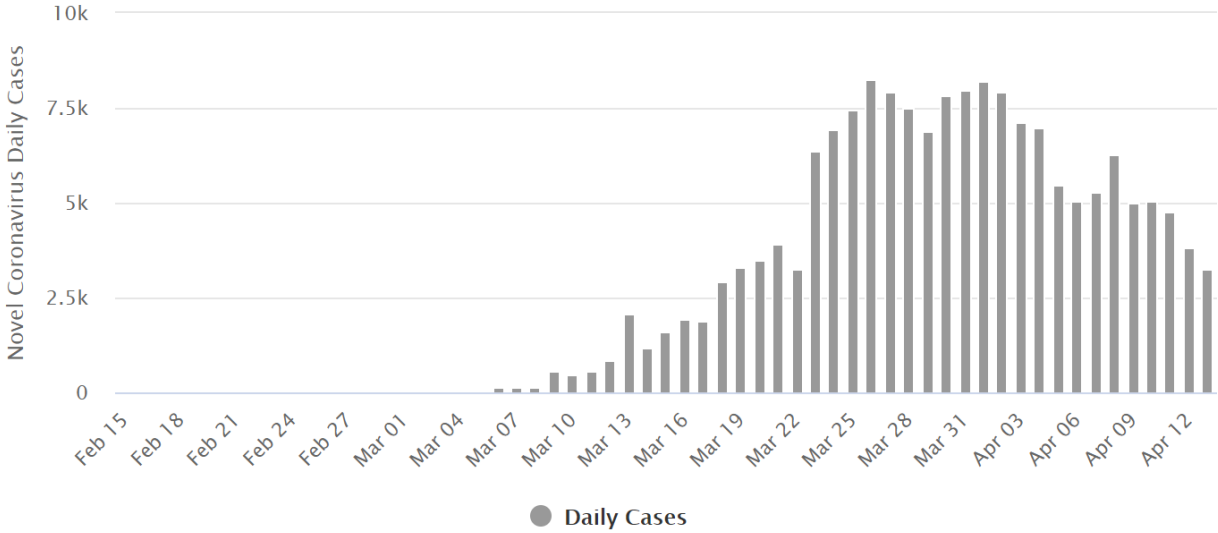
USA 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in Spain

Daily New Cases

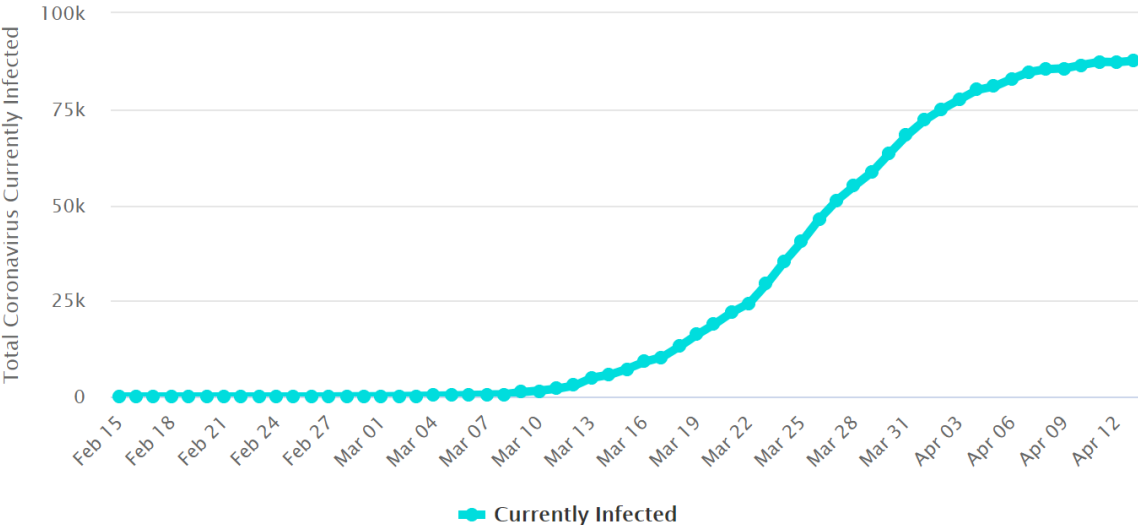
Cases per Day
Data as of 0:00 GMT+0



2. Spain

Active Cases in Spain

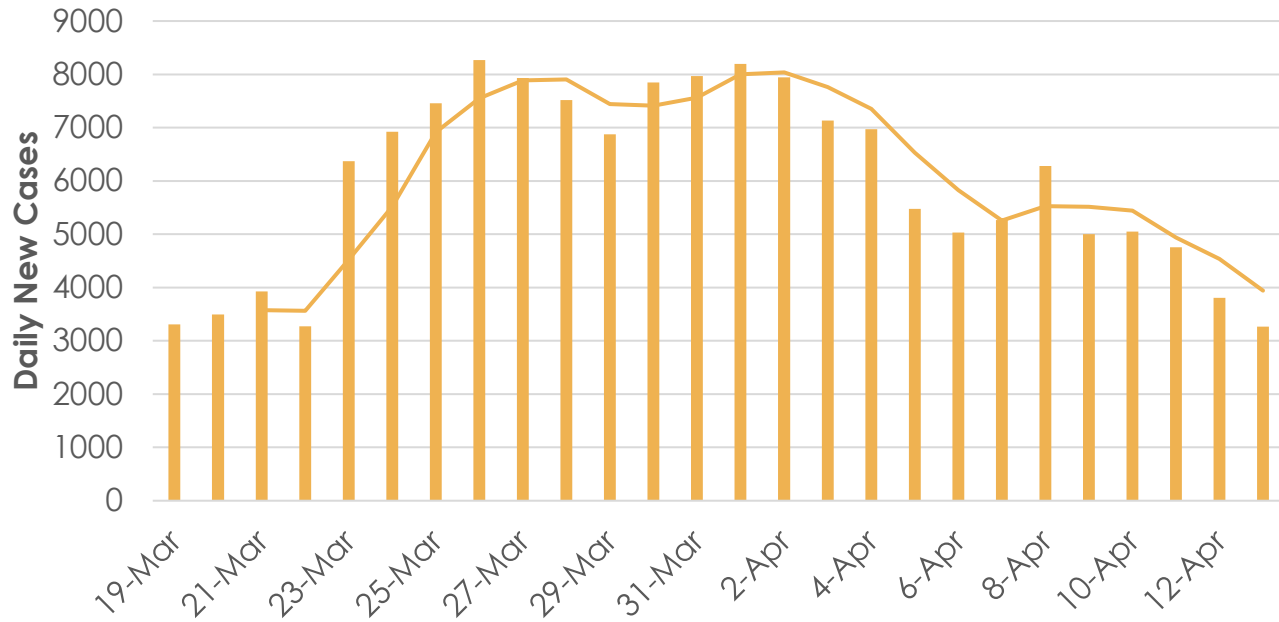
Active Cases
(Number of Infected People)



Trendlines for Spain

3-Day Moving Average Trendline

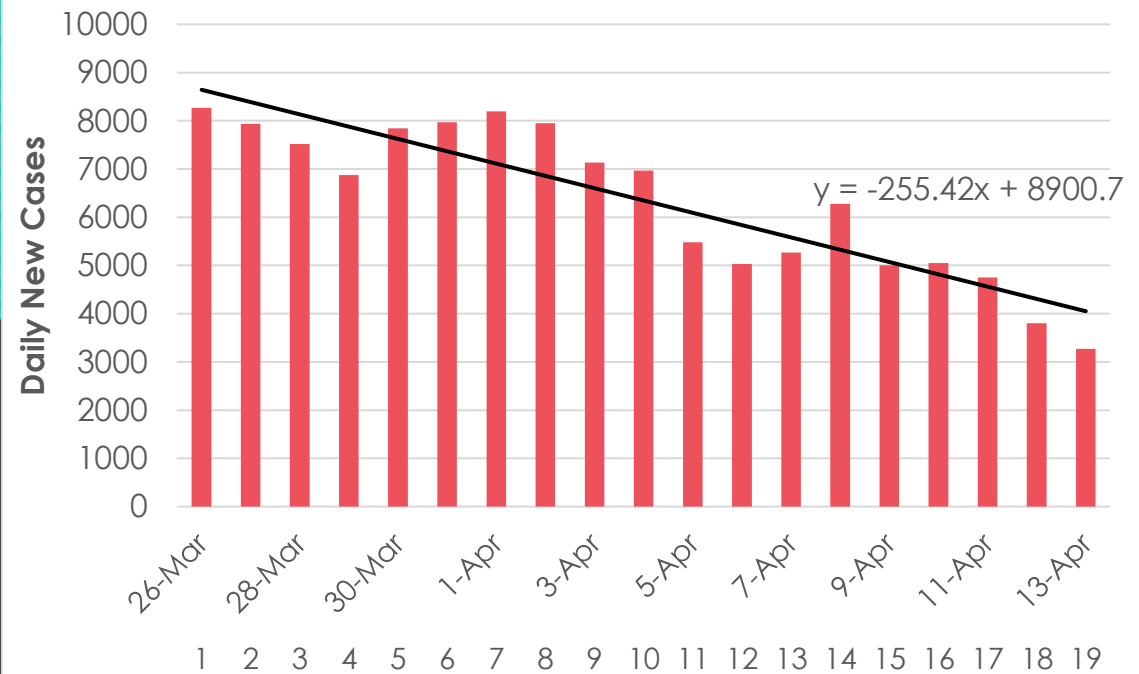
Spain 3 per. Mov. Avg. (Daily New Cases)



Spain Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

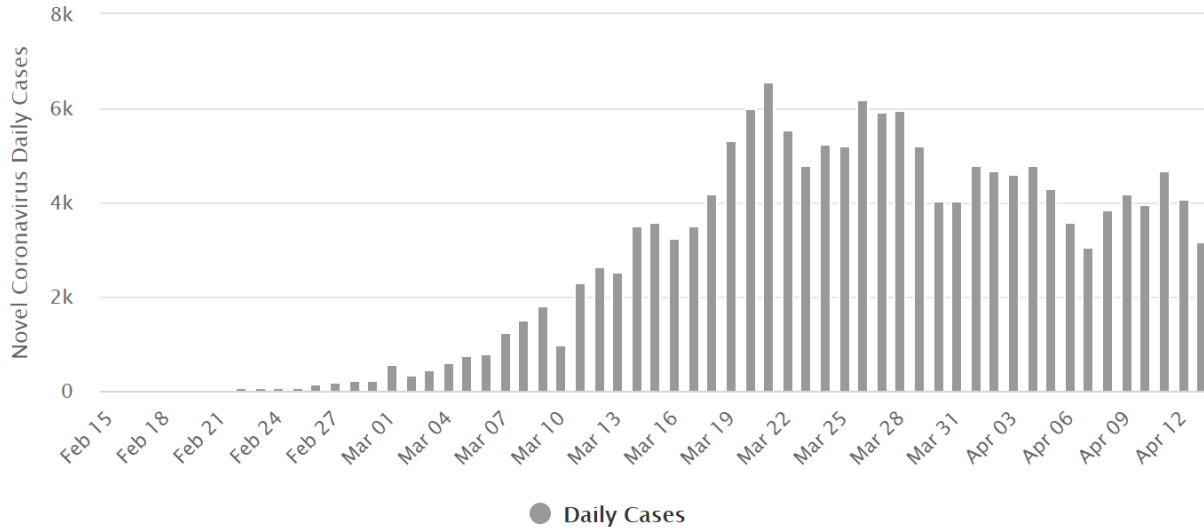
when $y = 0$; $x = 35$
(April 30)



Daily New Cases in Italy

Daily New Cases

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

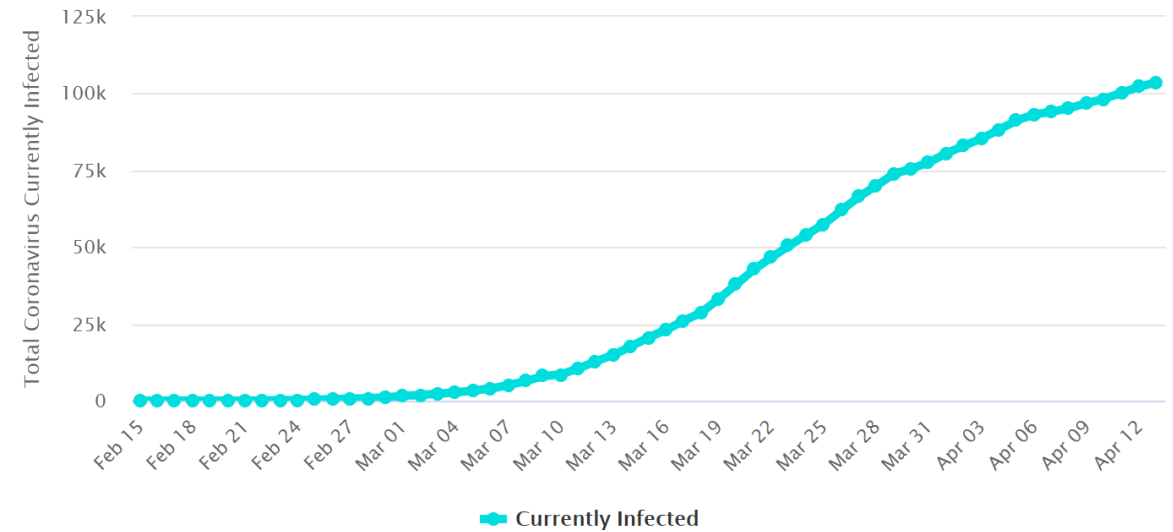


3. Italy

Active Cases in Italy

Active Cases

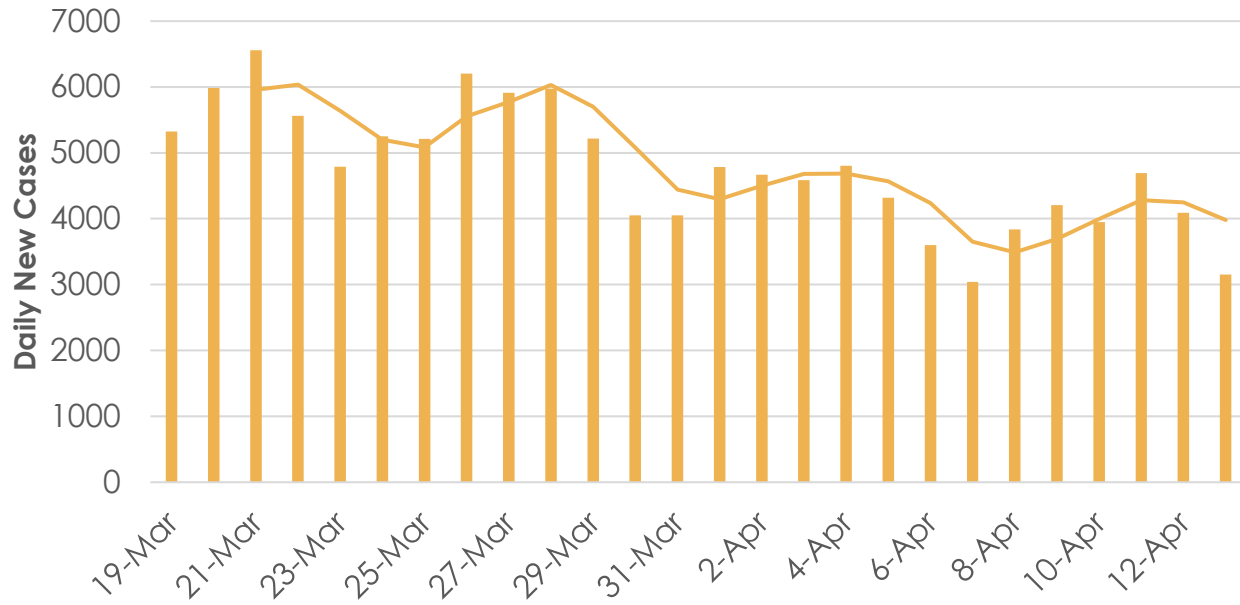
(Number of Infected People)



Trendlines for Italy

3-Day Moving Average Trendline

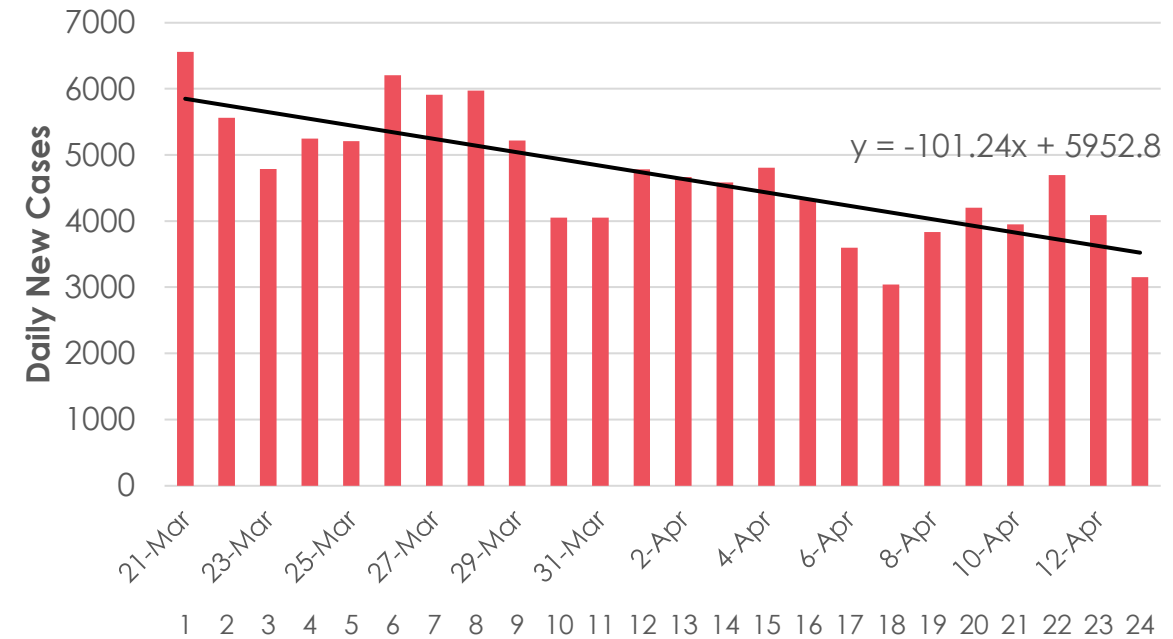
Italy 3 per. Mov. Avg. (Daily New Cases)



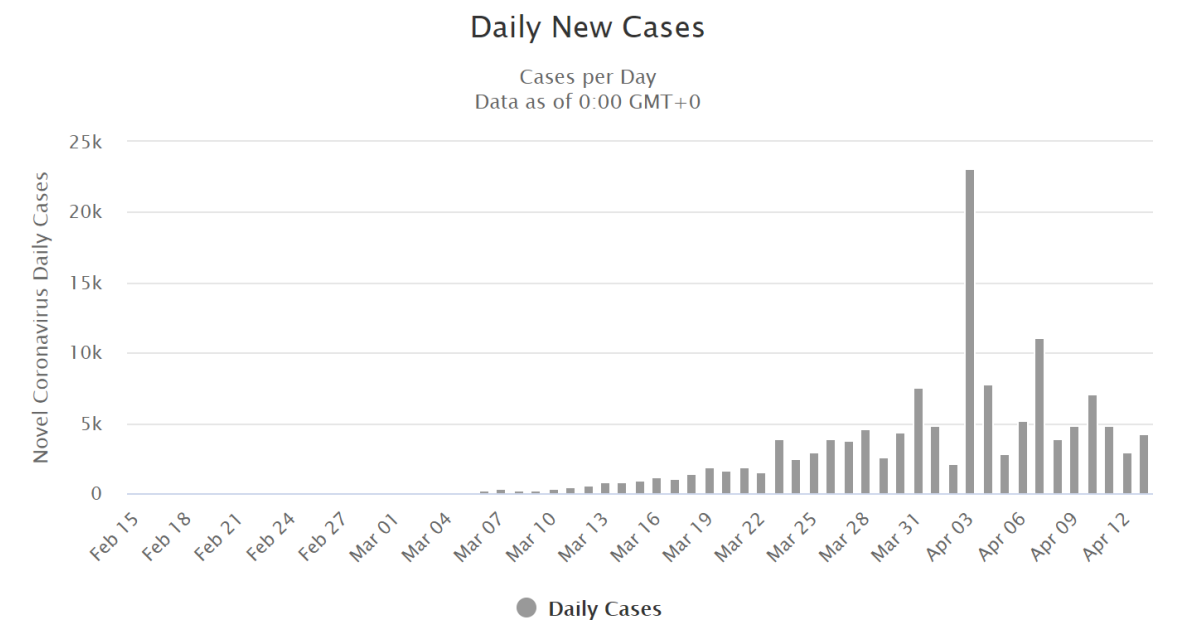
Italy Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

when $y = 0$; $x = 59$
(May 19)

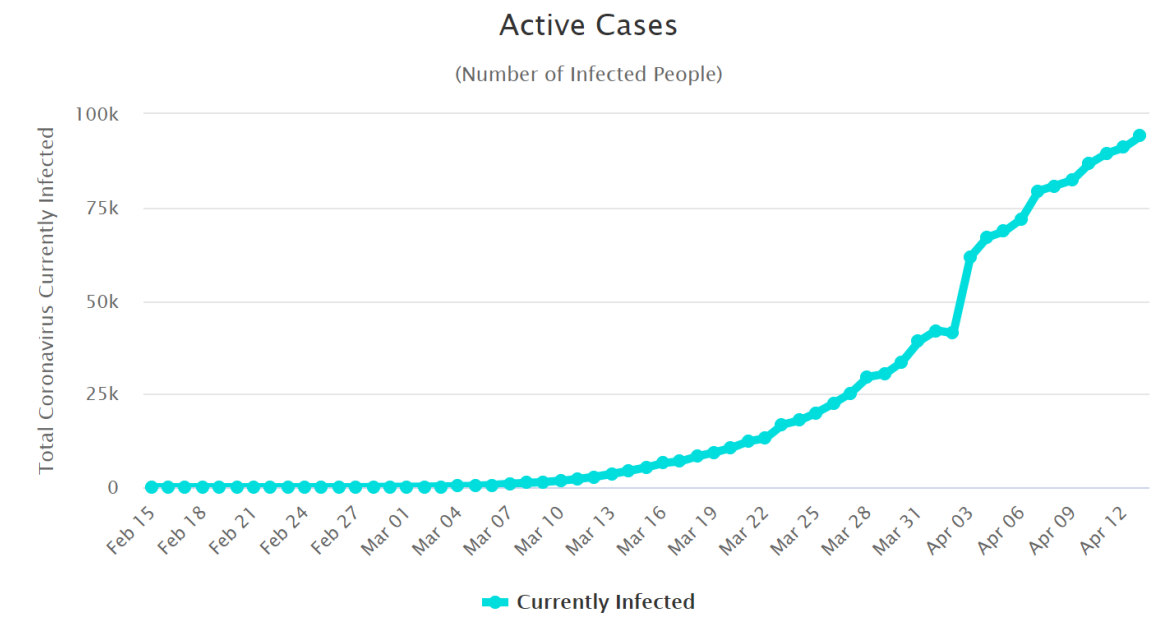


Daily New Cases in France

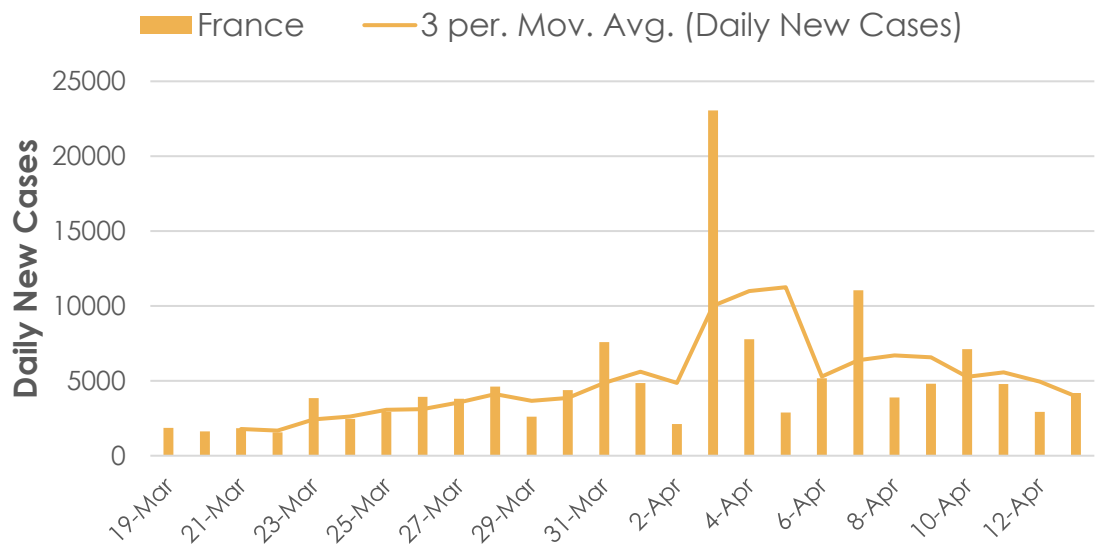


4. France

Active Cases in France



3-Day Moving Average Trendline

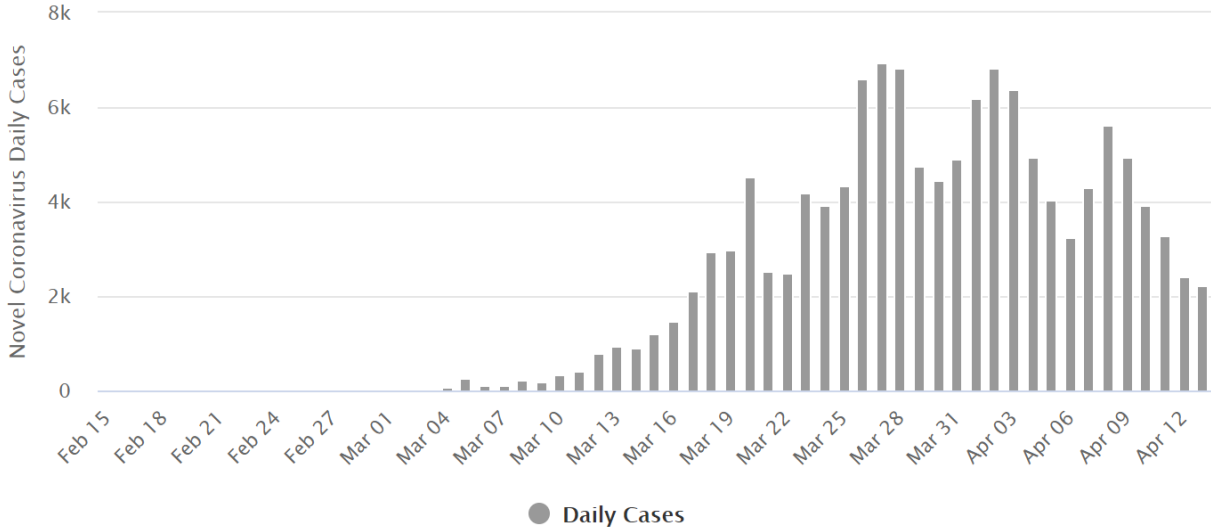


Total Coronavirus Currently Infected

Daily New Cases in Germany

Daily New Cases

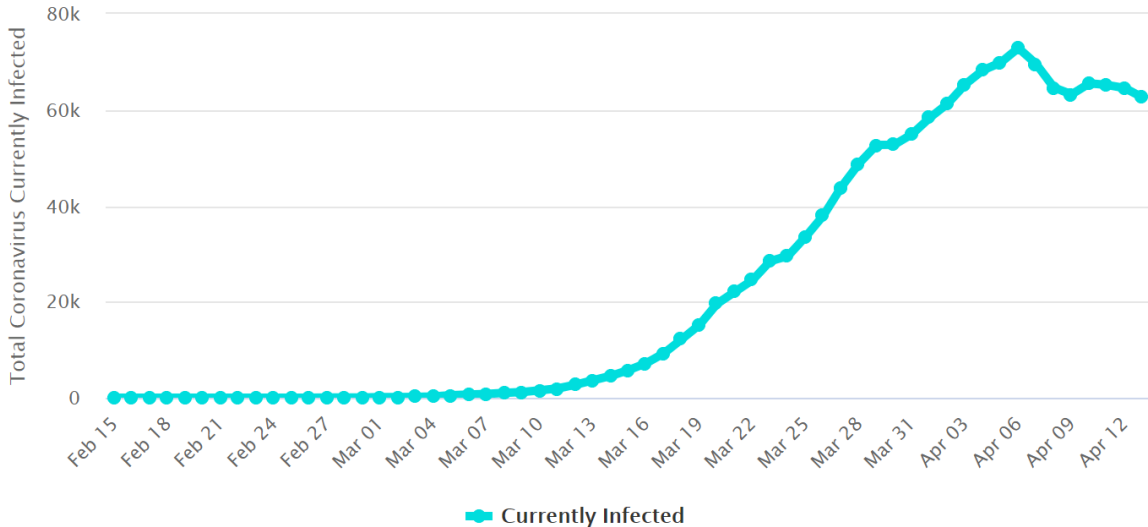
Cases per Day
Data as of 0:00 GMT+0



5. Germany

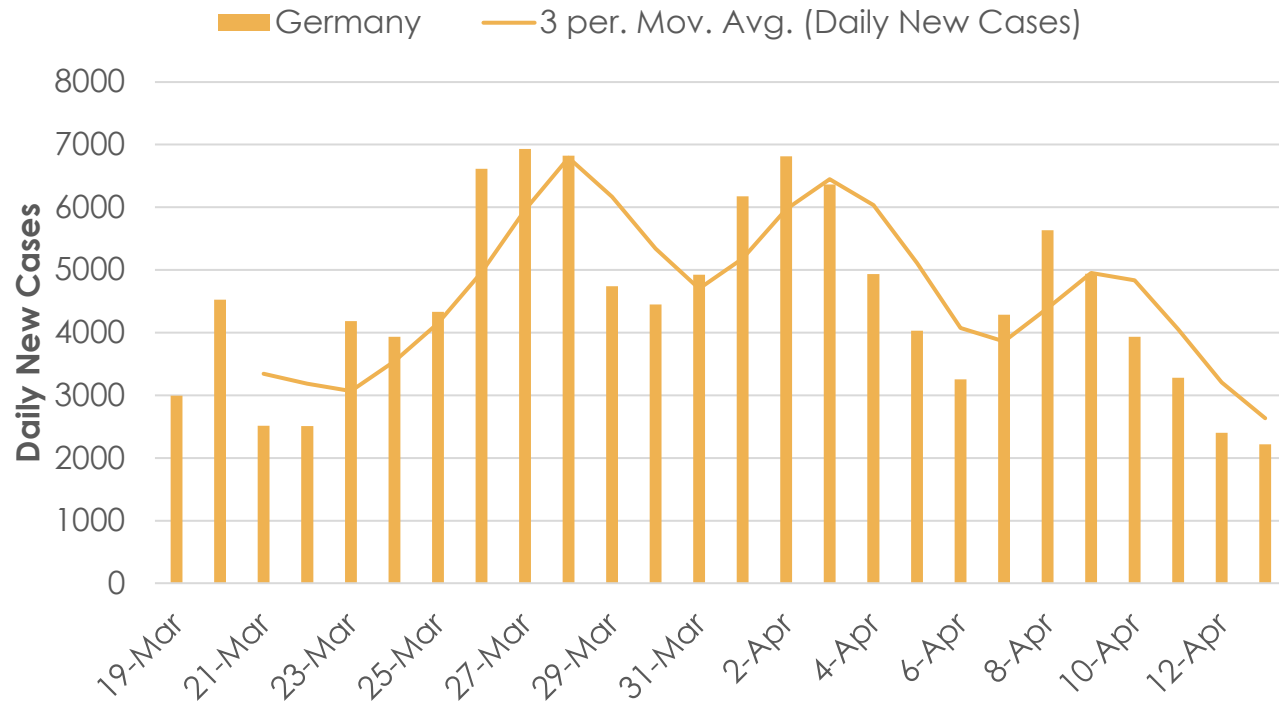
Active Cases in Germany

Active Cases
(Number of Infected People)

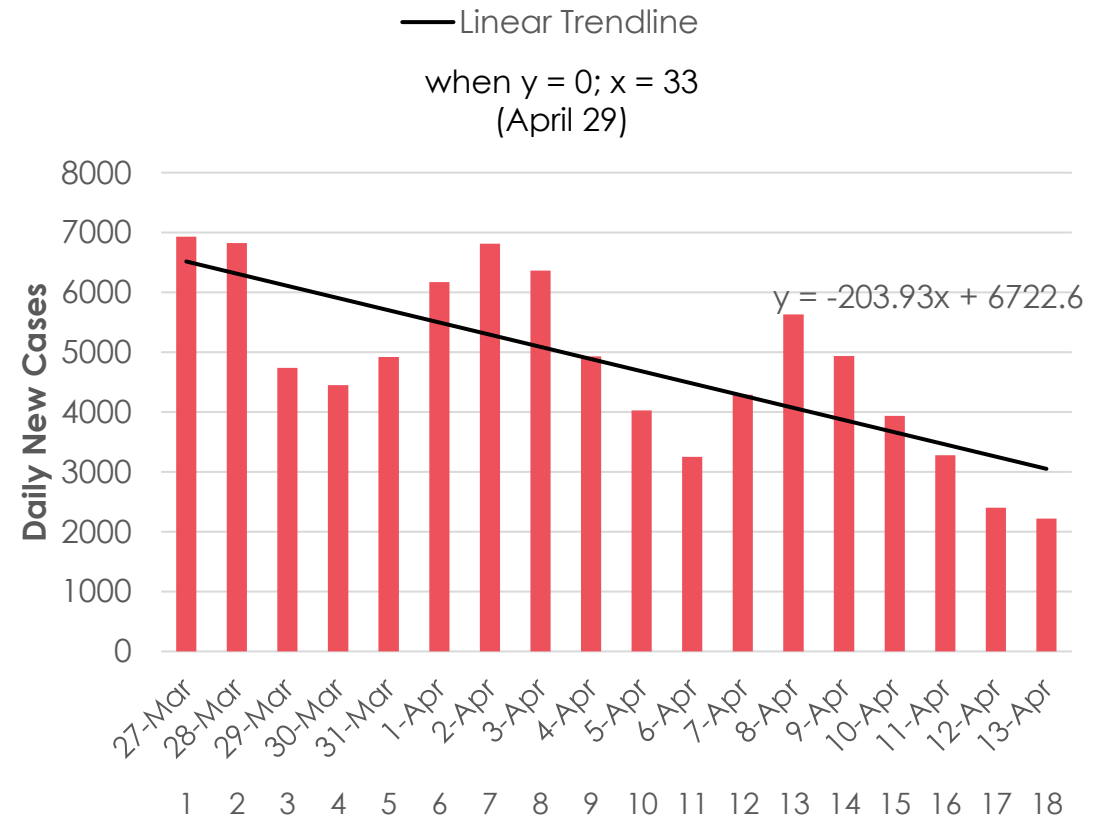


Trendlines for Germany

3-Day Moving Average Trendline



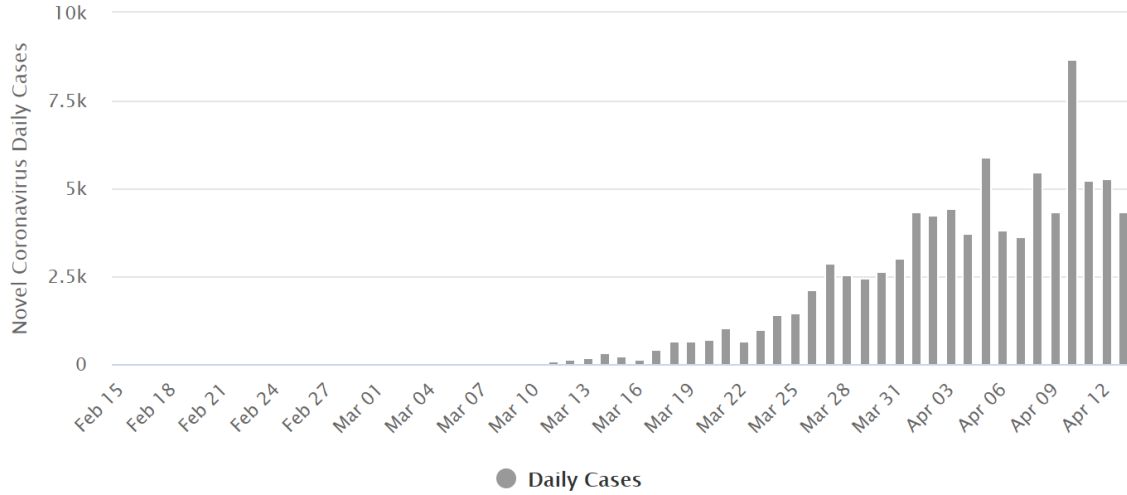
Germany Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in the United Kingdom

Daily New Cases

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

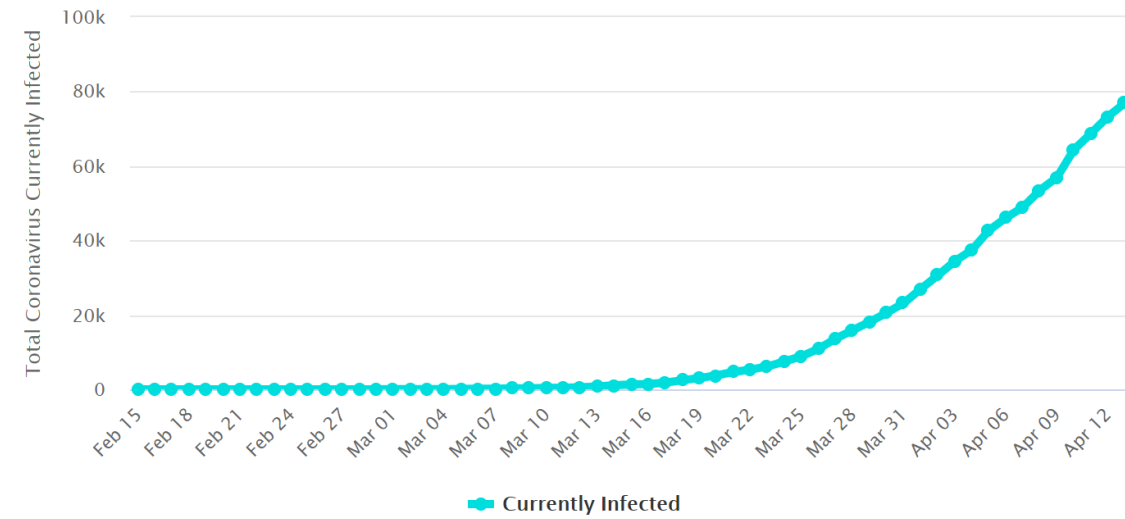


6. UK

Active Cases in the United Kingdom

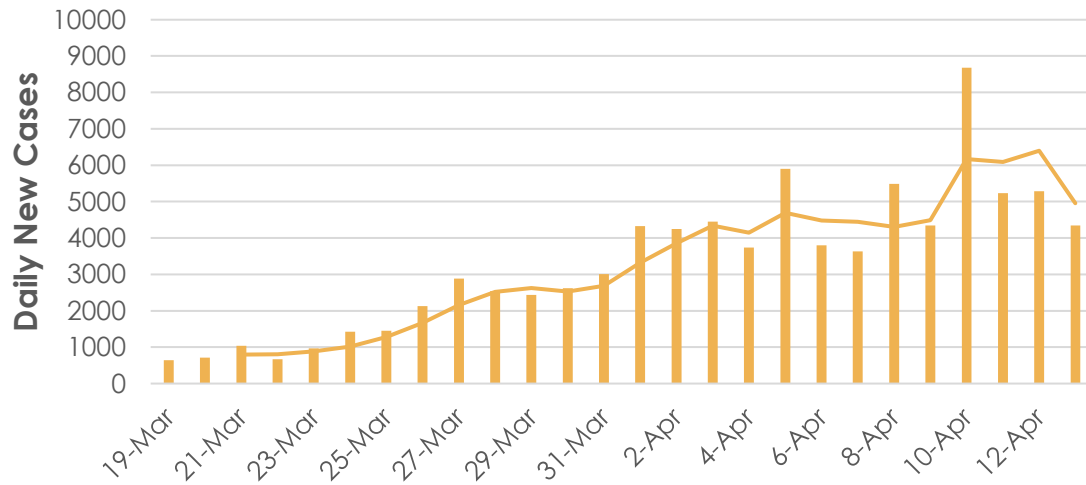
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

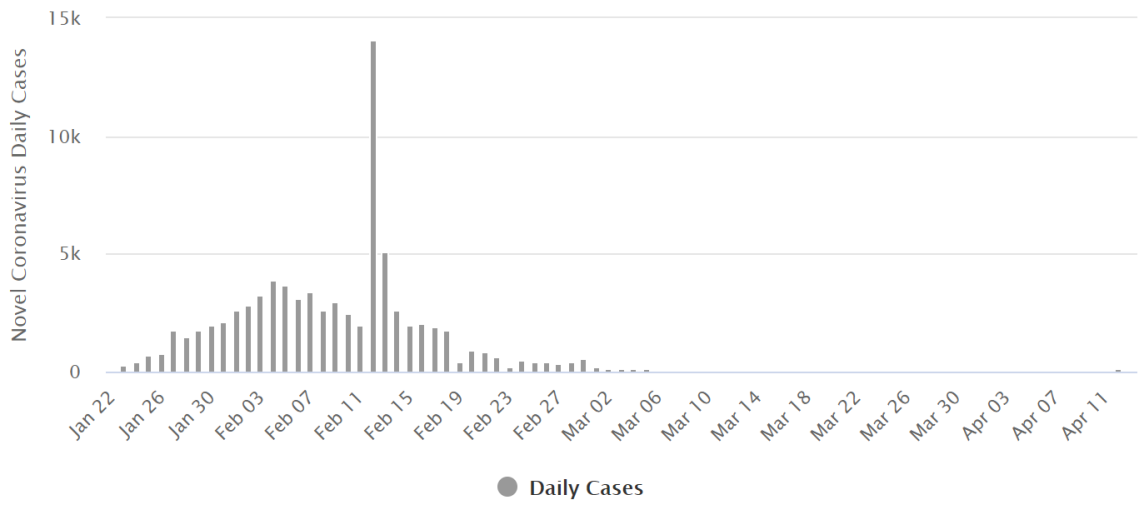
UK 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in China

Daily New Cases

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

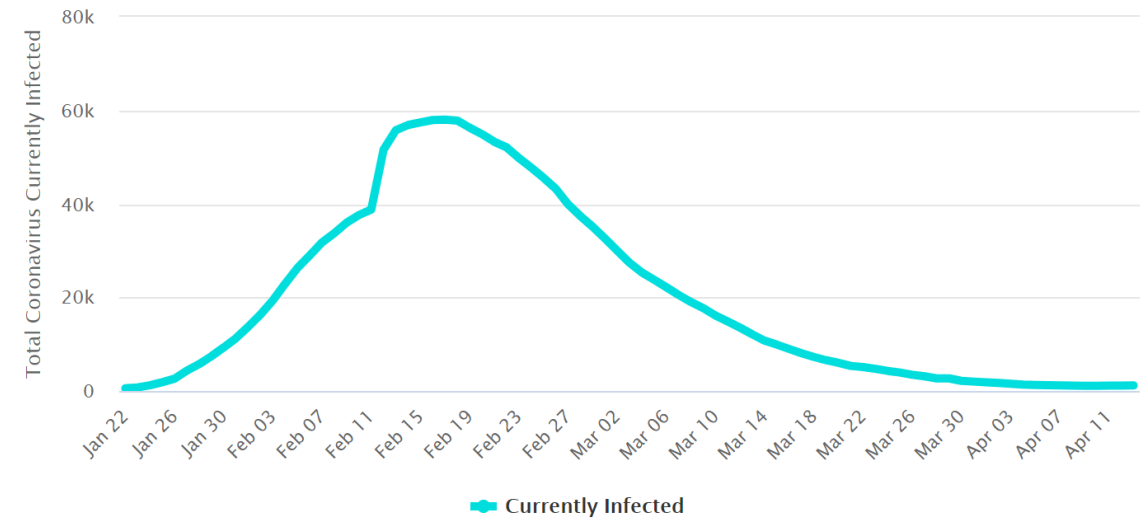


7. China

Active Cases in China

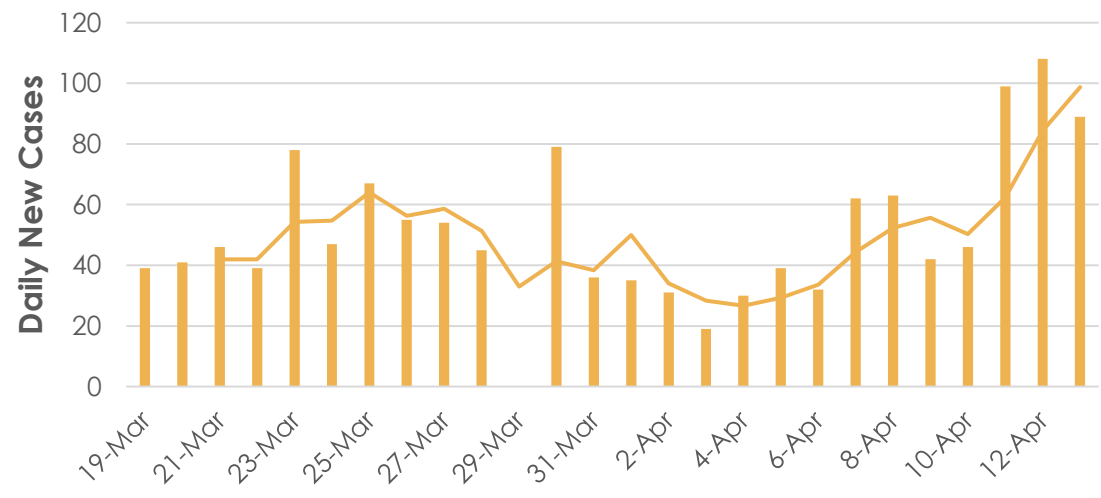
Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

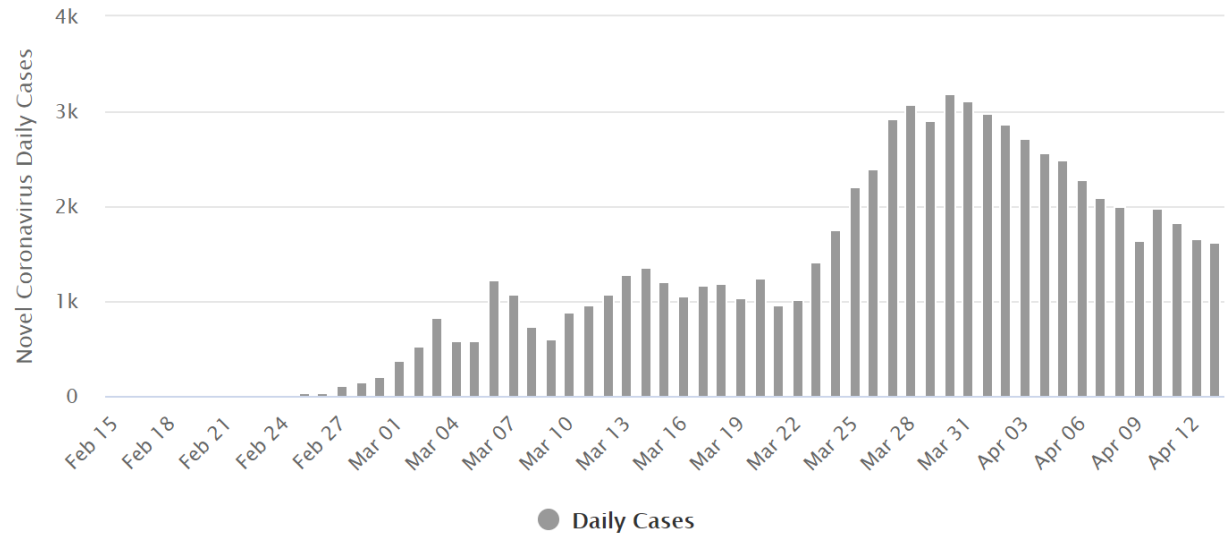
China 3 per. Mov. Avg. (Daily New Cases)



Daily New Cases in Iran

Daily New Cases

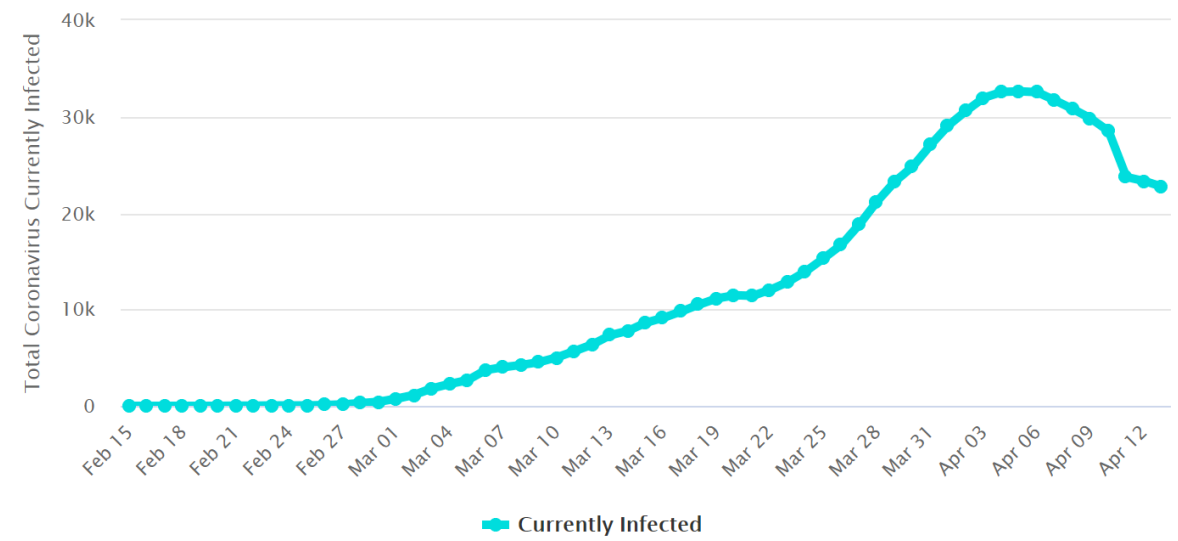
Cases per Day
Data as of 0:00 GMT+0



8. Iran

Active Cases in Iran

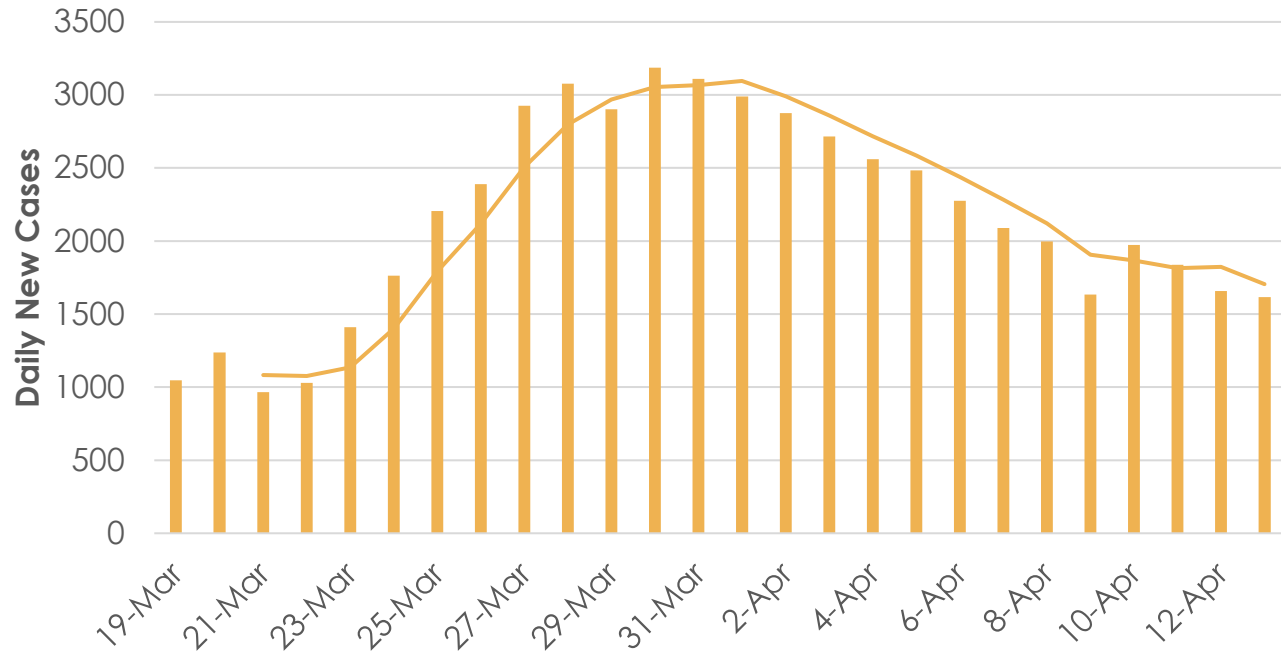
Active Cases
(Number of Infected People)



Trendlines for Iran

3-Day Moving Average Trendline

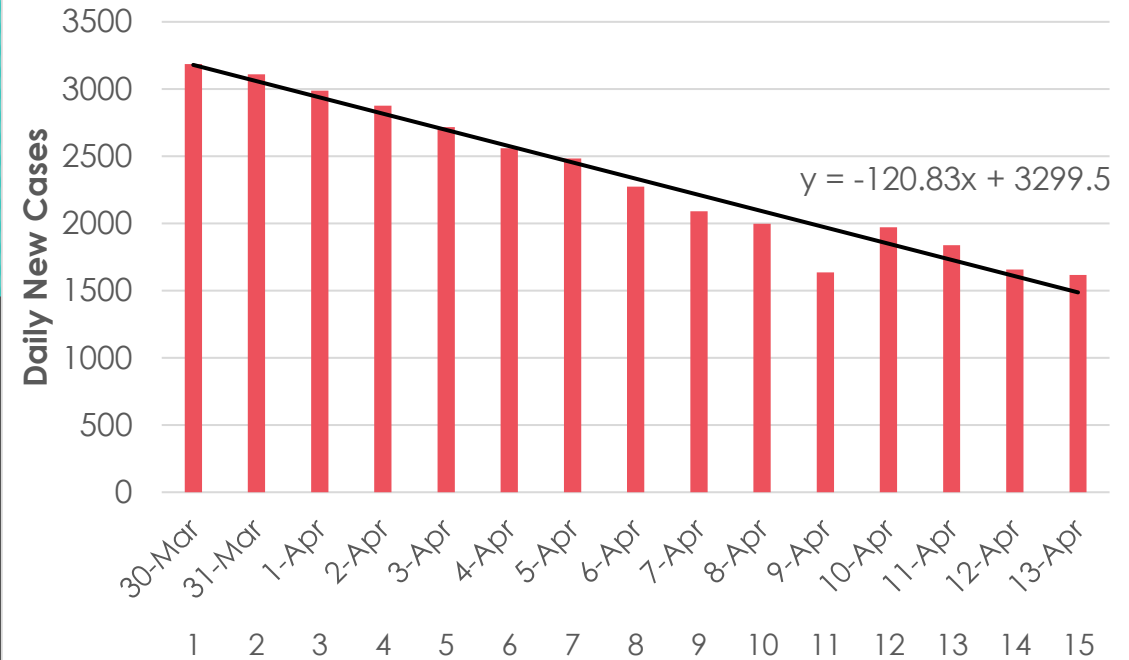
Iran 3 per. Mov. Avg. (Daily New Cases)



Iran Bar Chart of Daily New Cases from Peak Till Today

Linear Trendline

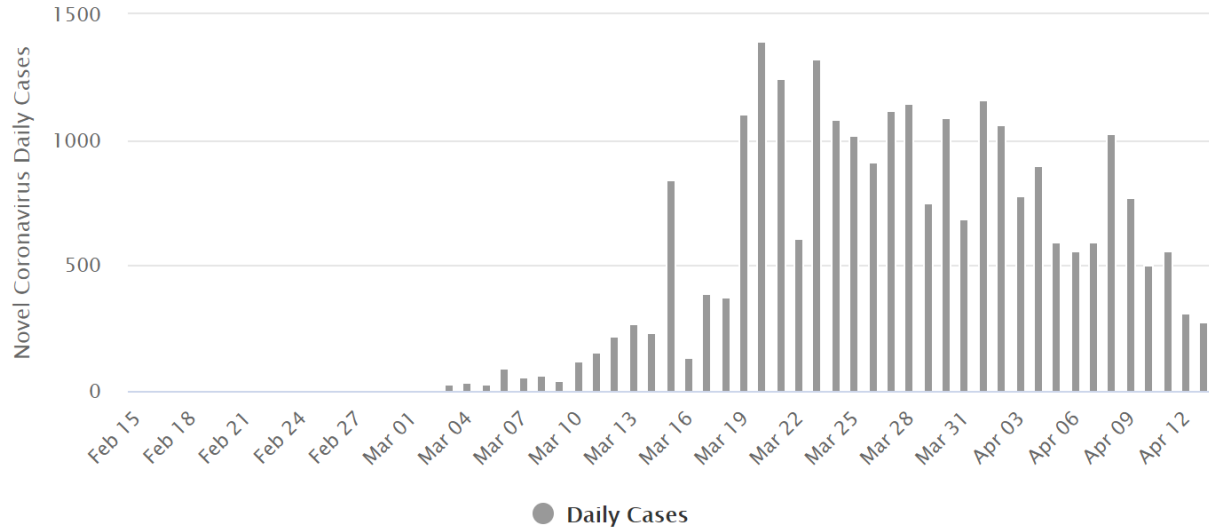
when $y = 0$; $x = 27$
(April 26)



Daily New Cases in Switzerland

Daily New Cases

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

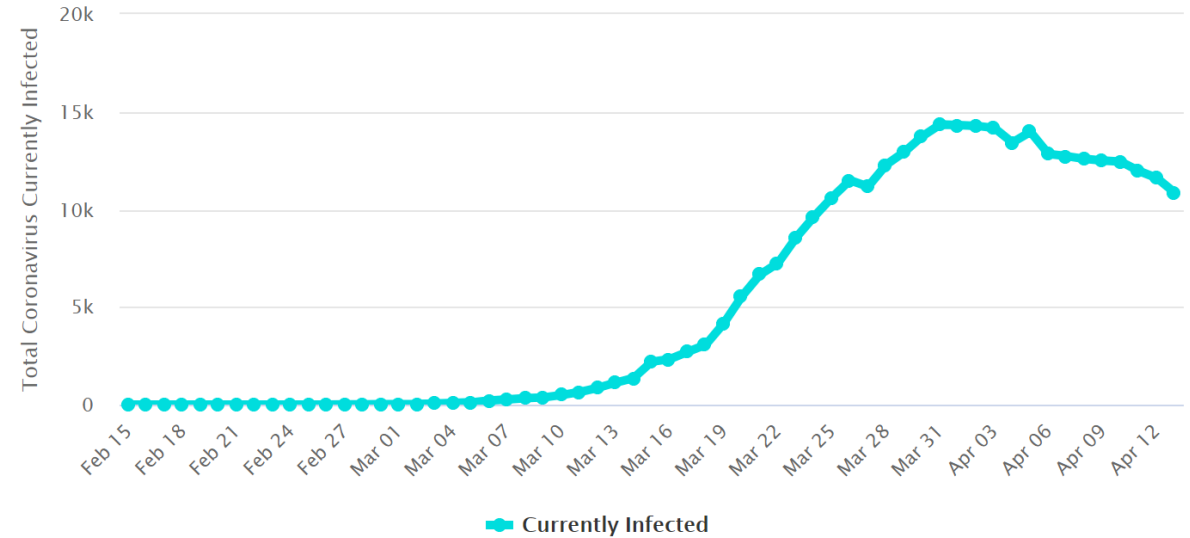


9. Switzerland

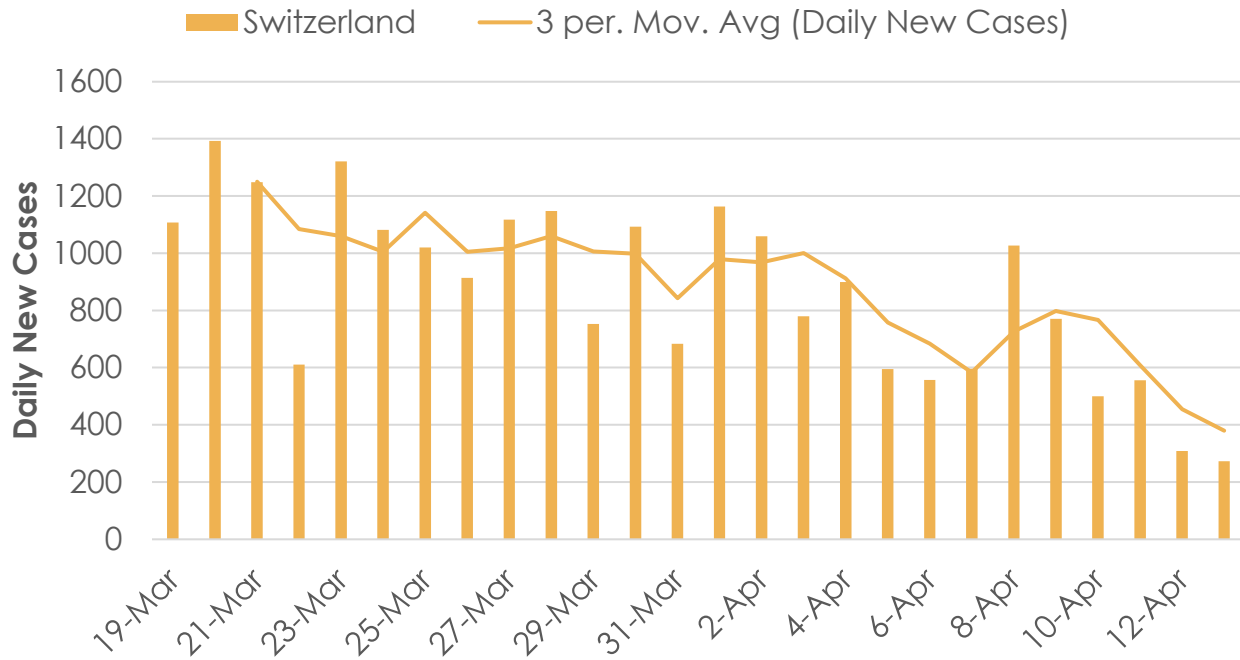
Active Cases in Switzerland

Active Cases

(Number of Infected People)

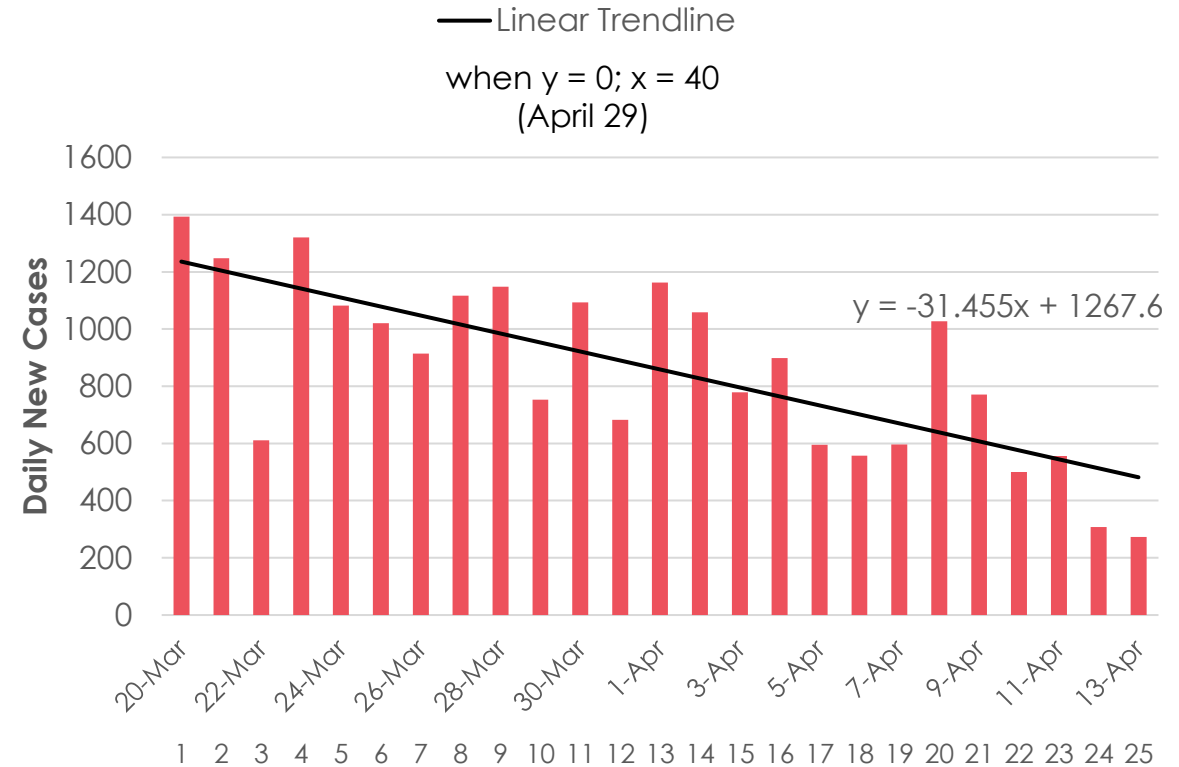


3-Day Moving Average Trendline



Trendlines for Switzerland

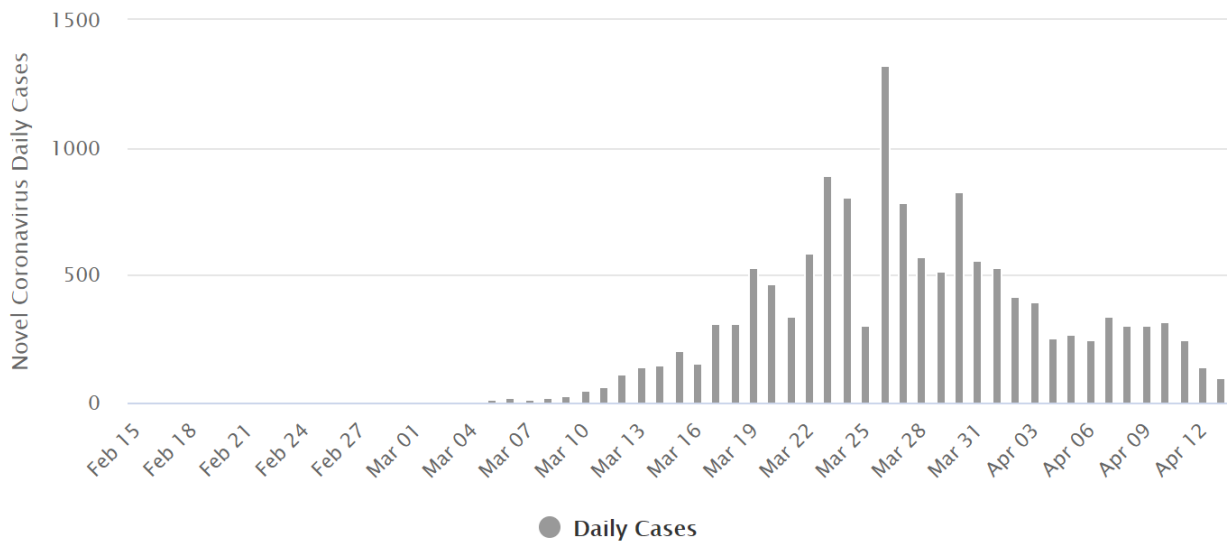
Switzerland Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in Austria

Daily New Cases

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

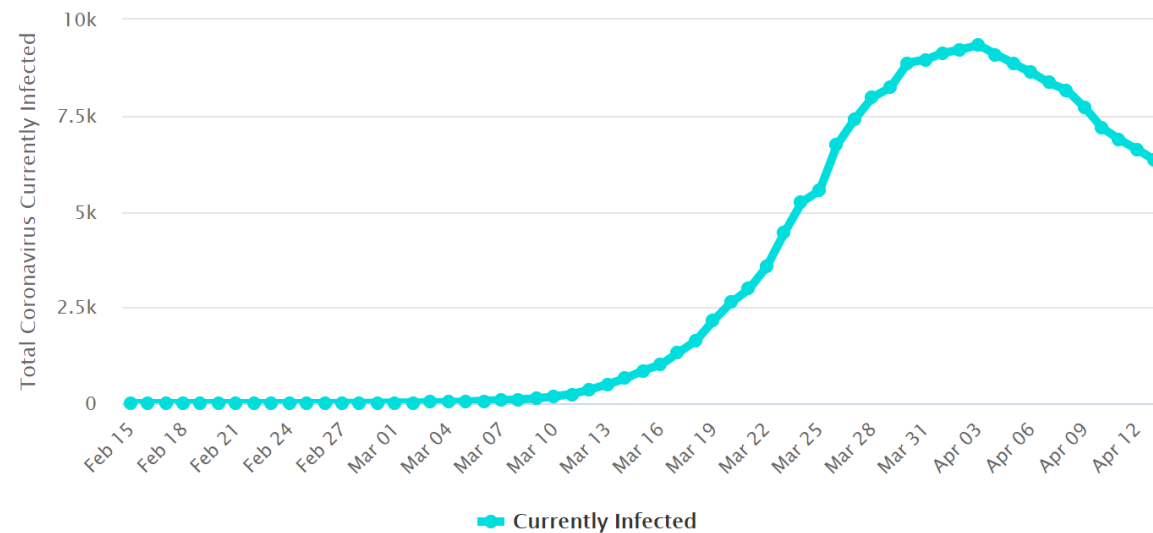


Austria

Active Cases in Austria

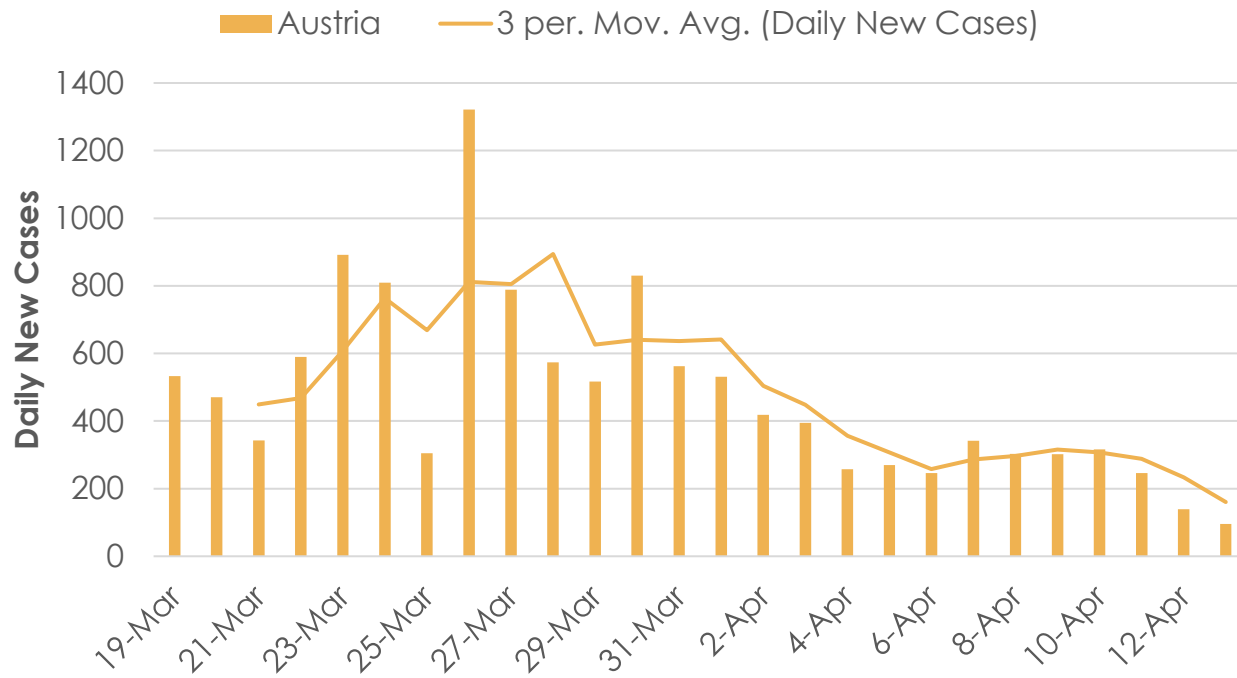
Active Cases

(Number of Infected People)

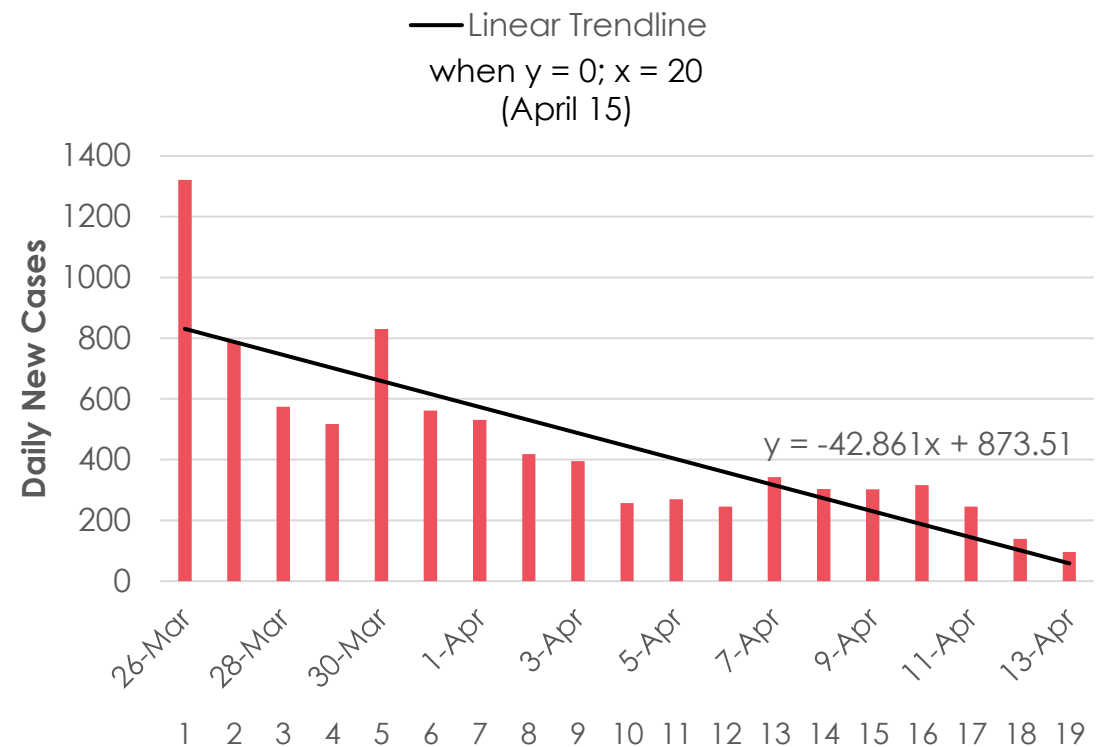


Trendlines for Austria

3-Day Moving Average Trendline



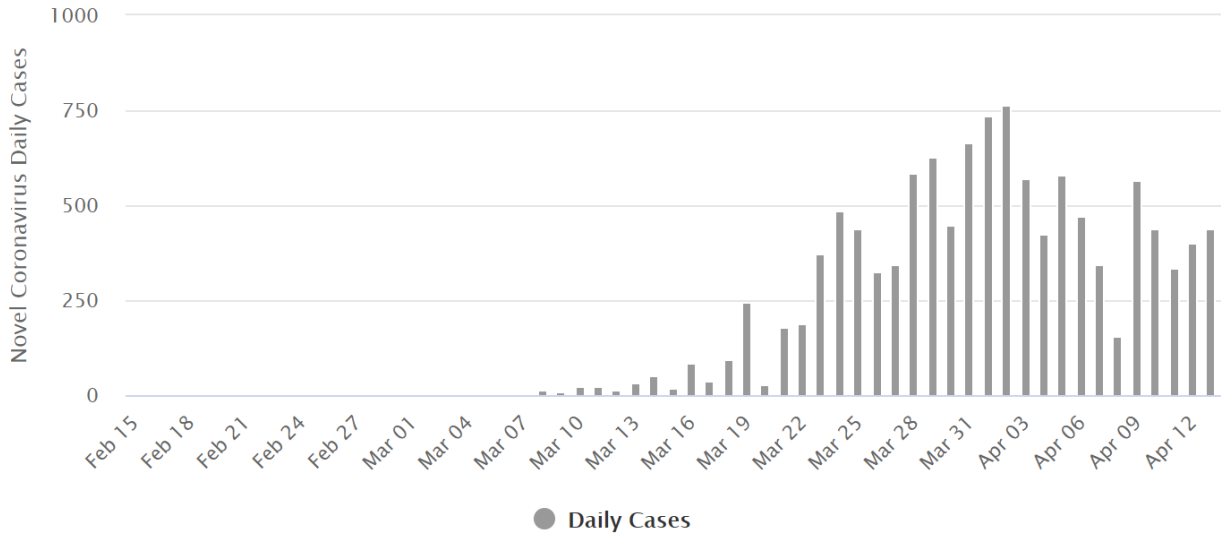
Austria Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in Israel

Daily New Cases

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

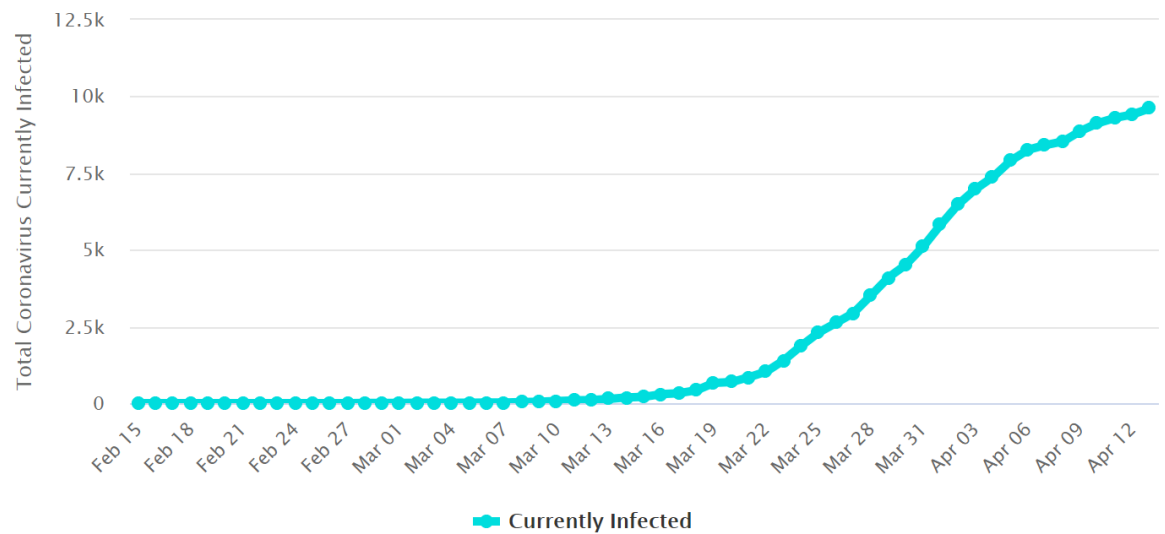


Israel

Active Cases in Israel

Active Cases

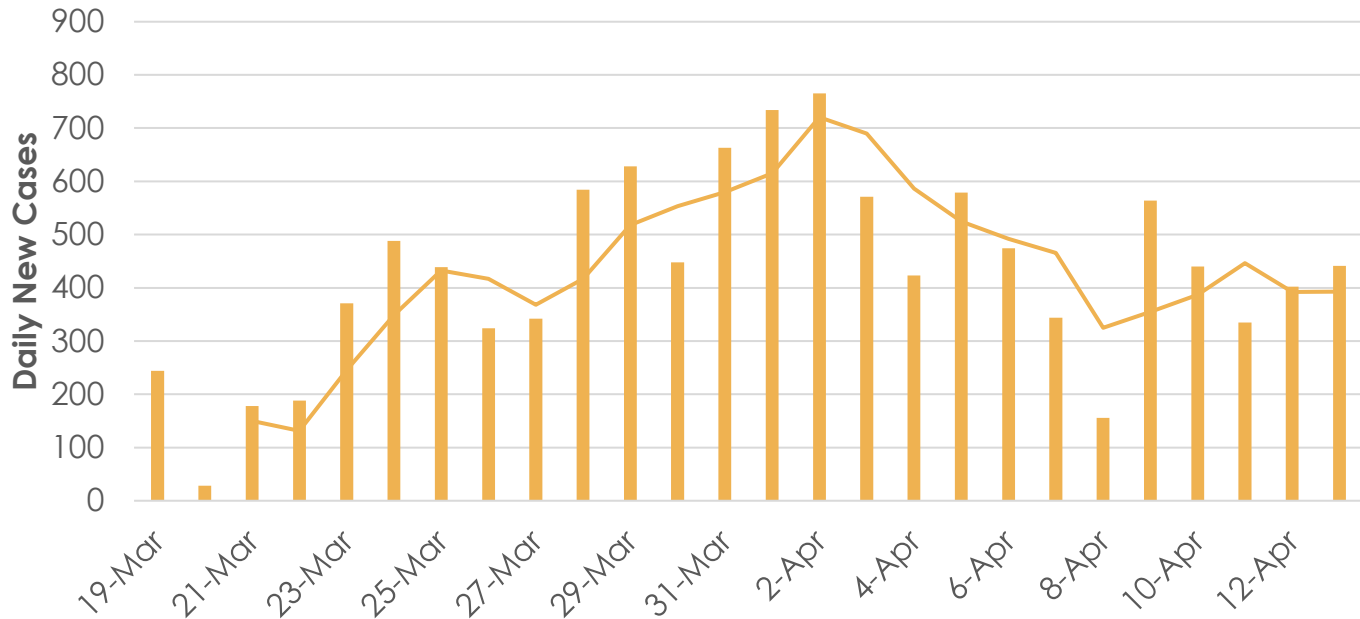
(Number of Infected People)



Trendlines for Israel

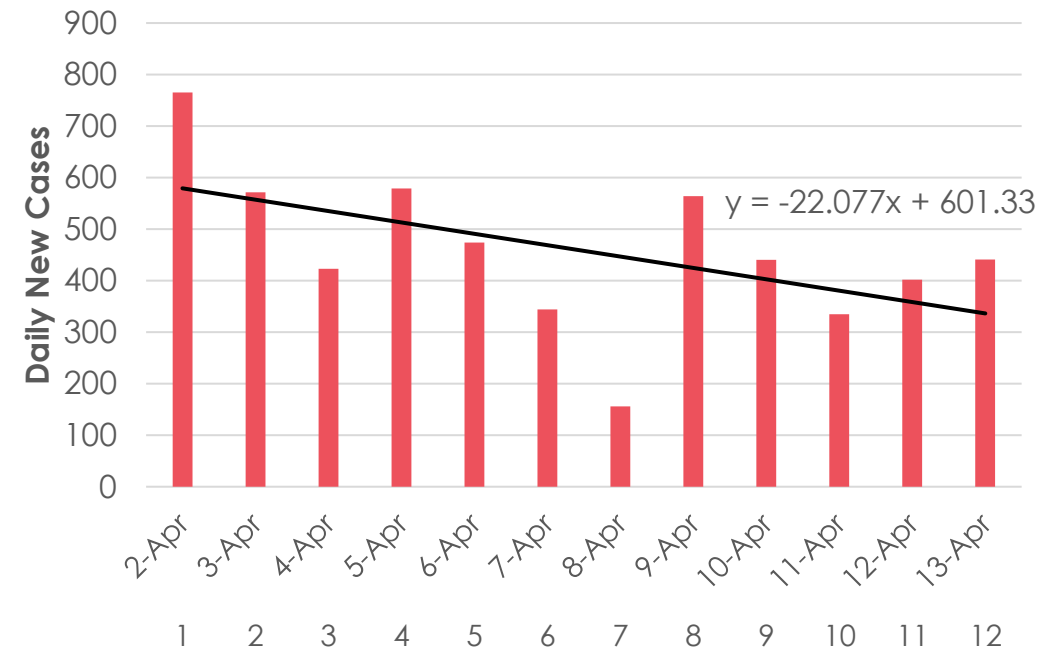
3-Day Moving Average Trendline

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

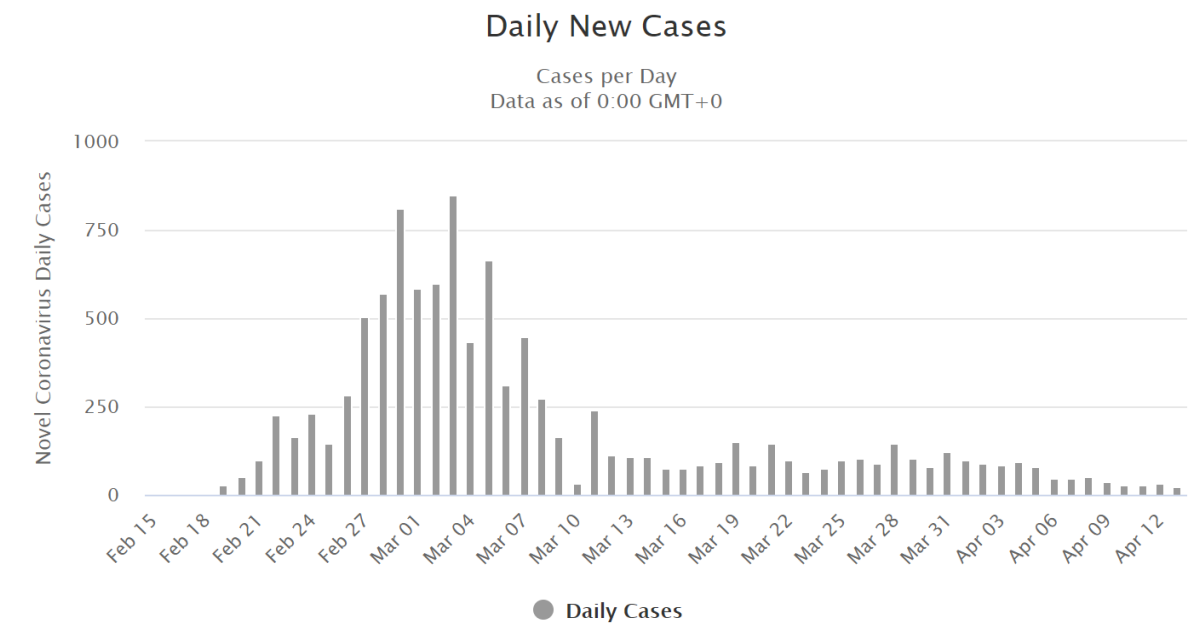


Israel Bar Chart of Daily New Cases from Peak till Today

Linear Trendline
when $y = 0$; $x = 27$
(April 29)

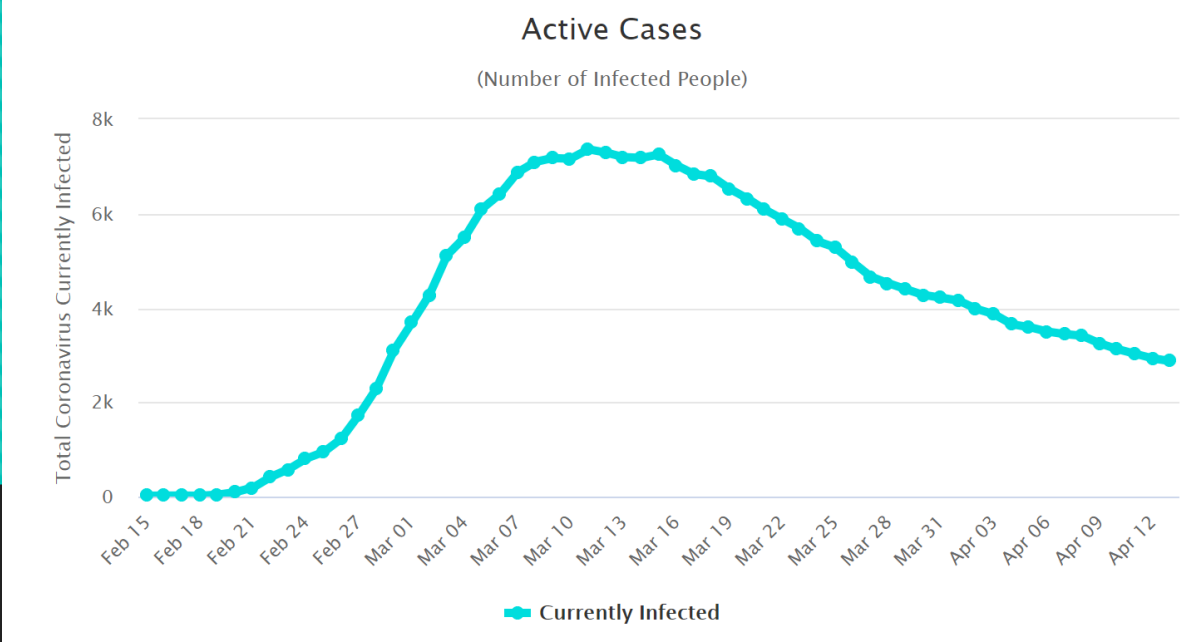


Daily New Cases in South Korea

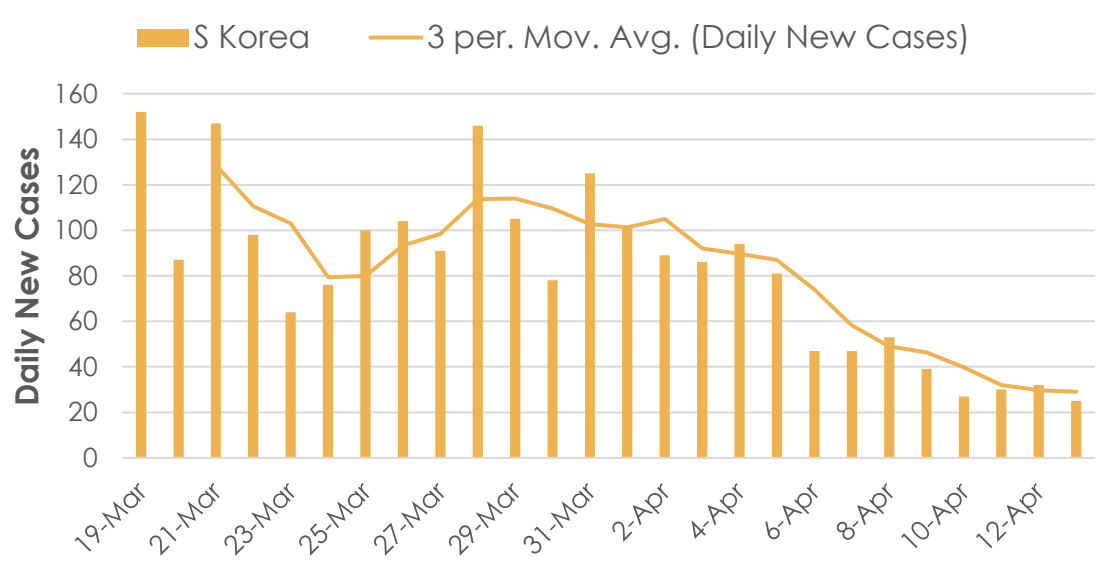


South Korea

Active Cases in South Korea



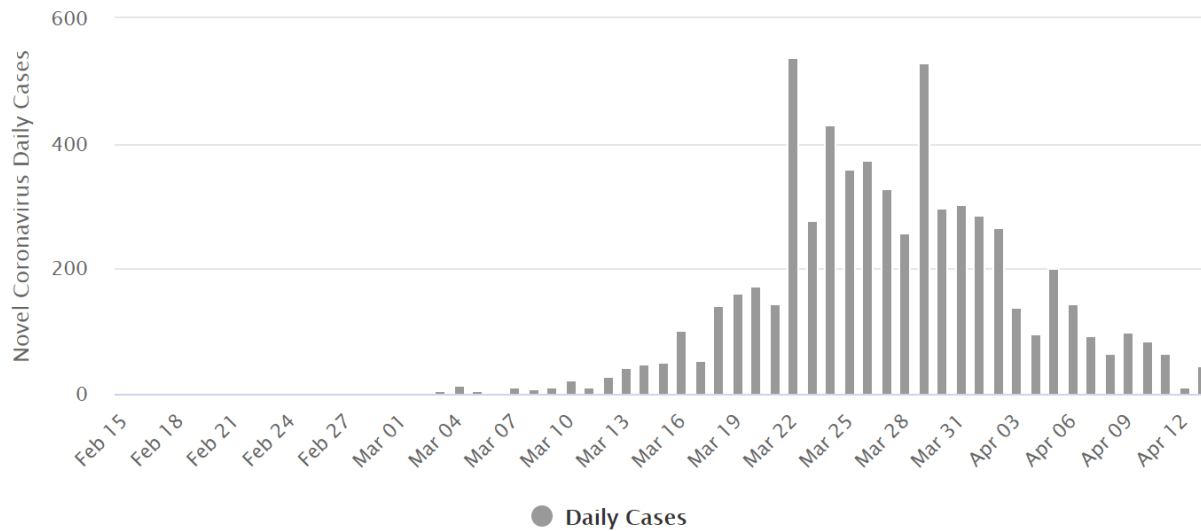
3-Day Moving Average Trendline



Daily New Cases in Australia

Daily New Cases

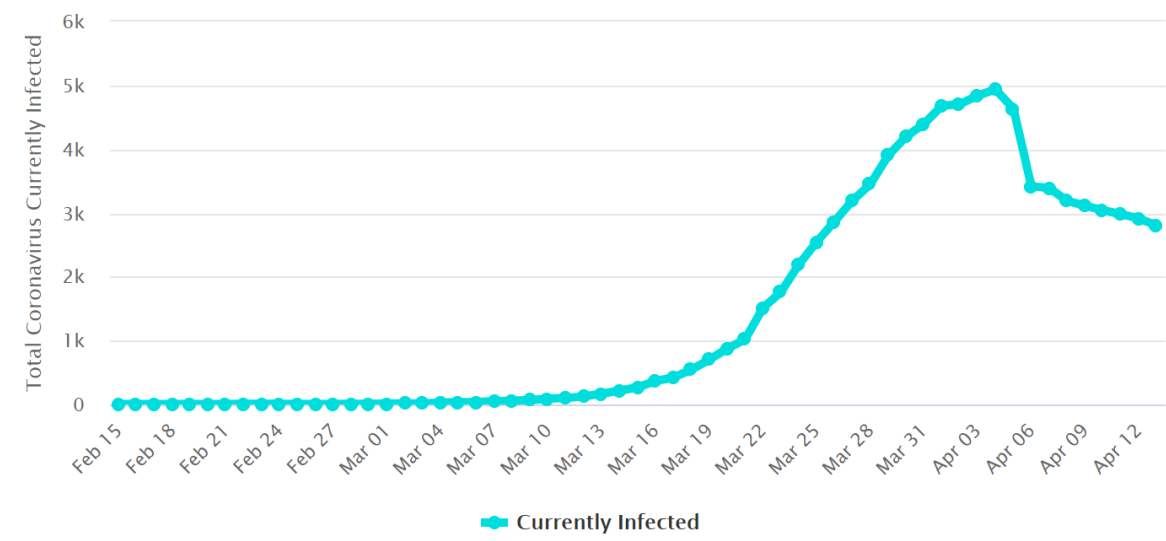
Cases per Day
Data as of 0:00 GMT+0



Australia

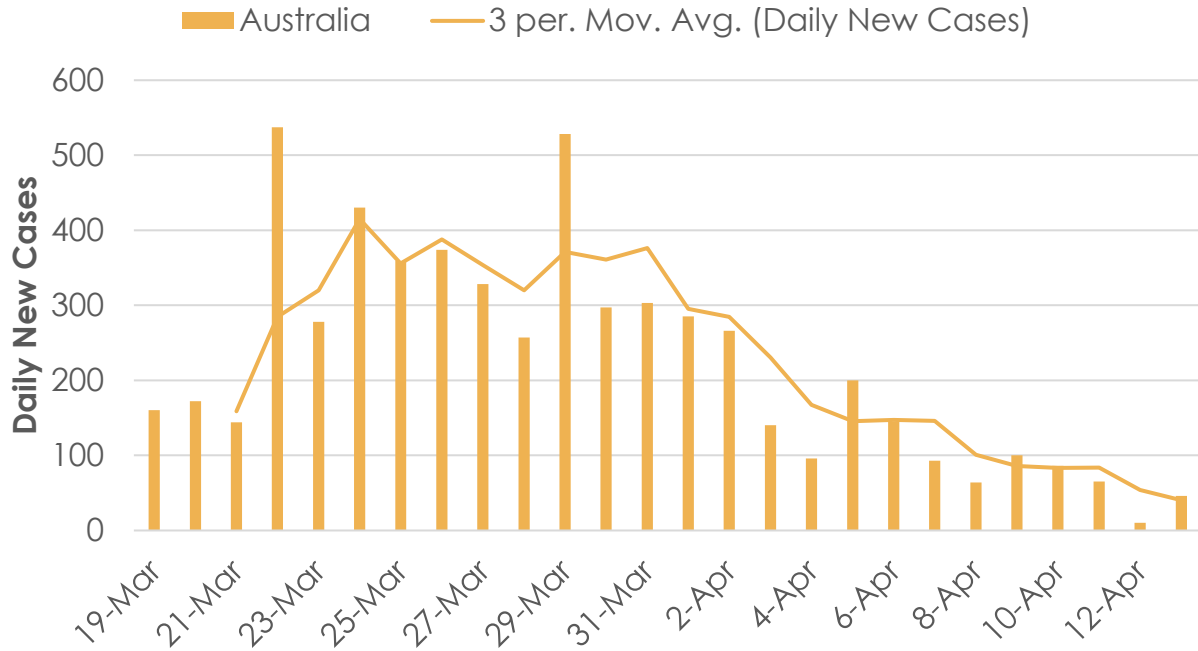
Active Cases in Australia

Active Cases
(Number of Infected People)

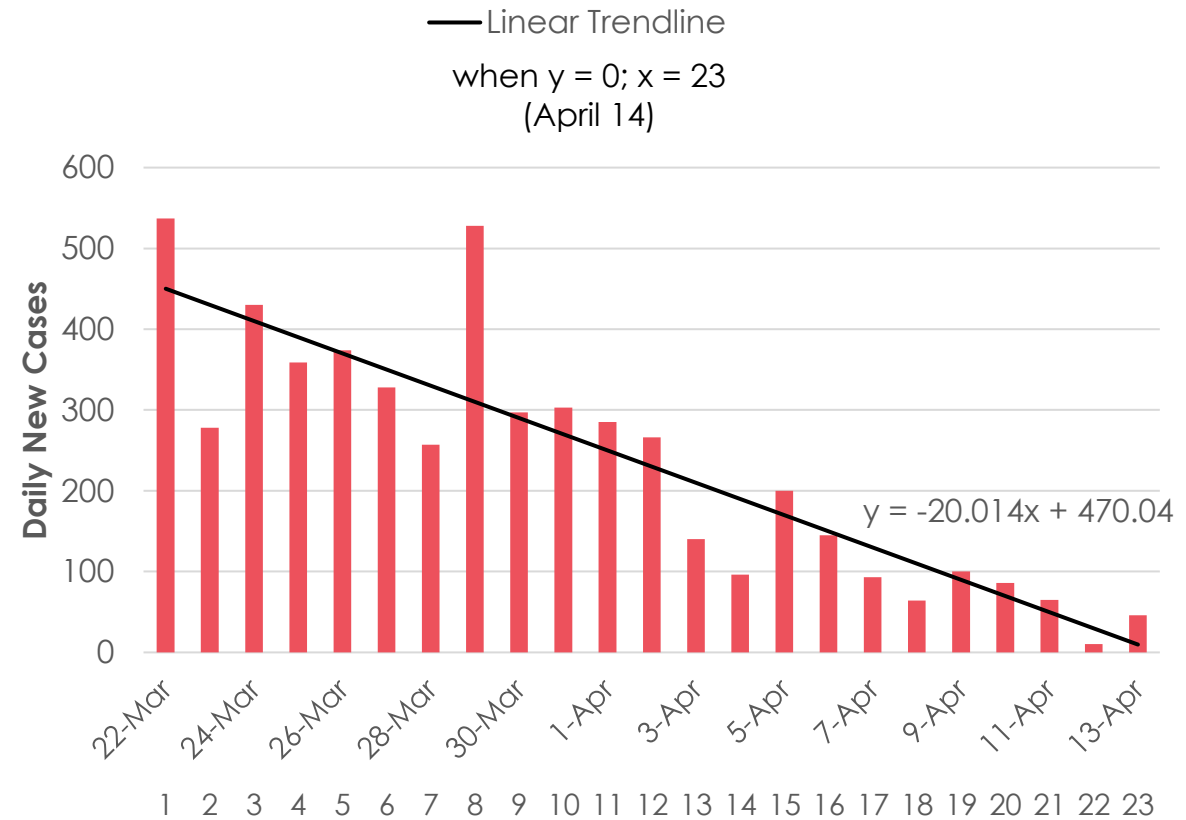


Trendlines for Australia

3-Day Moving Average Trendline

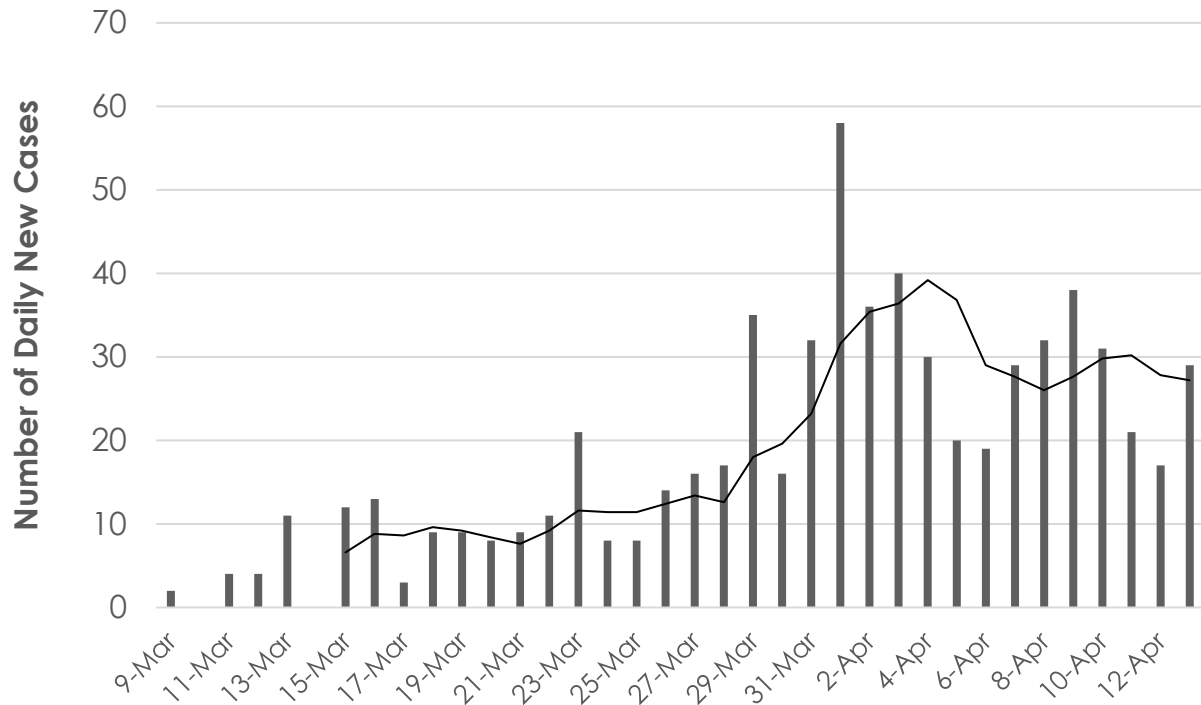


Australia Bar Chart of Daily New Cases from Peak till Today



Daily New Cases in Cyprus

— 5 per. Mov. Avg. (Daily New Cases)

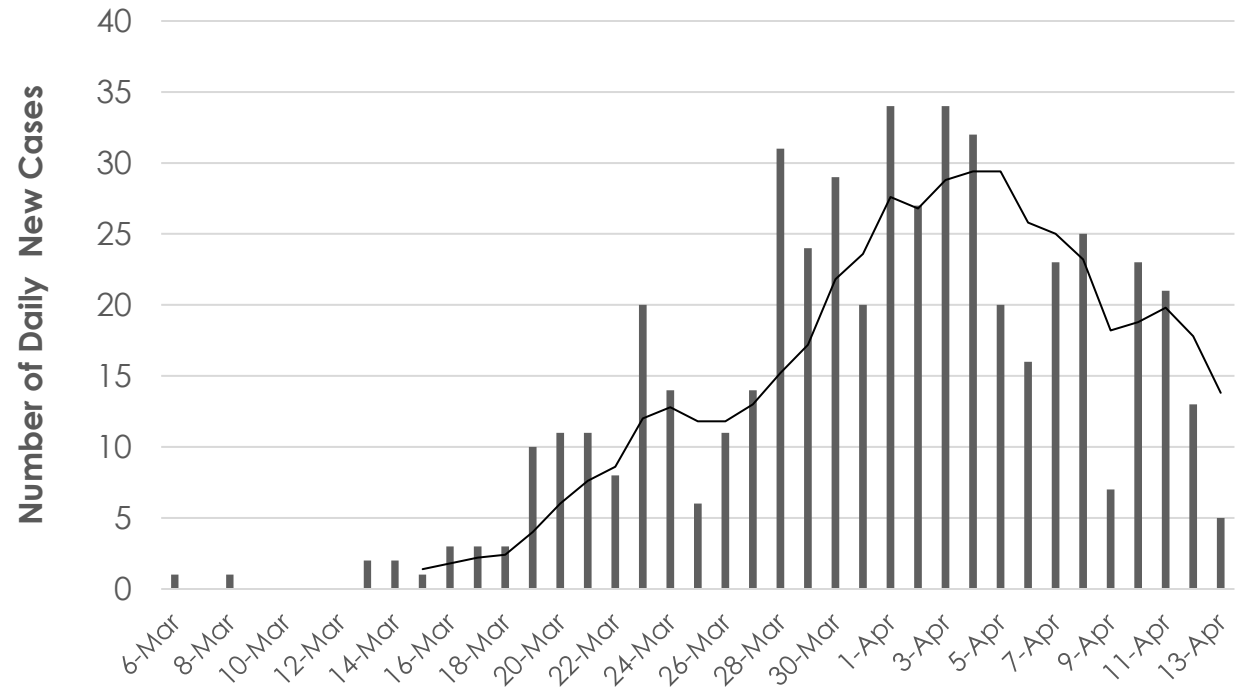


Cyprus

Correlation, r (Between Cyprus and Hawaii) = 0.590
 r is significant at $\alpha = 5\%$

Daily New Cases in Hawaii

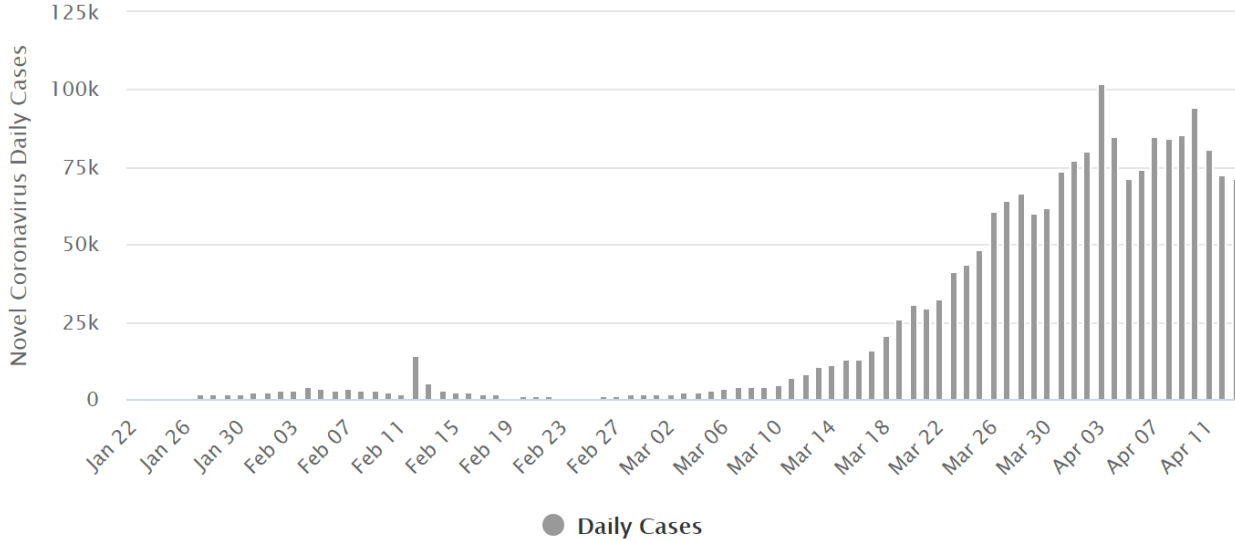
— 5 per. Mov. Avg. (Daily New Cases)



Hawaii

Daily New Cases

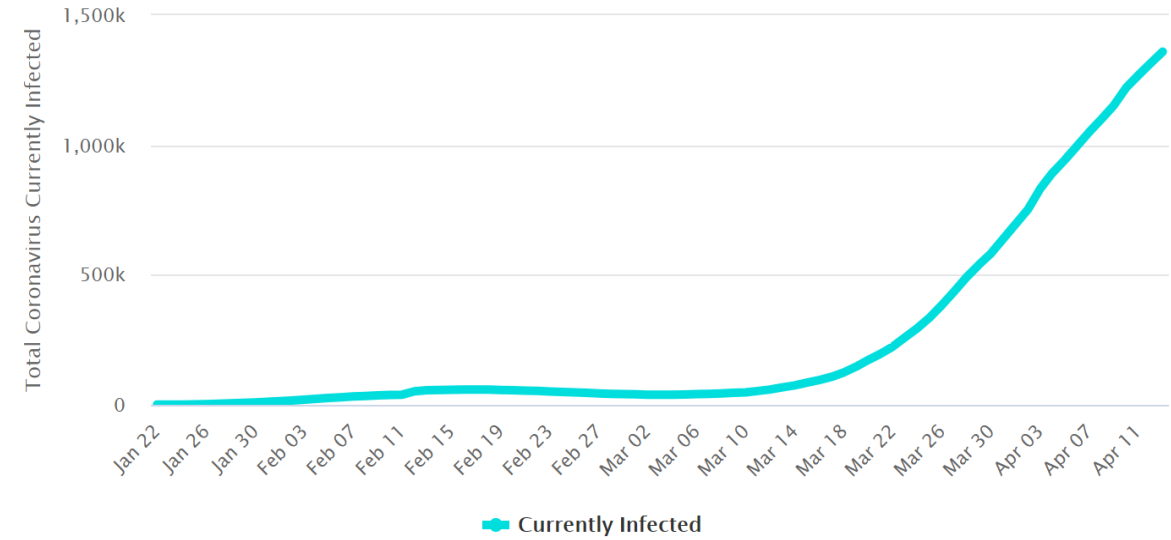
Cases per Day
Data as of 0:00 GMT+0



Worldwide

Active Cases

(Number of Infected People)



3-Day Moving Average Trendline

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

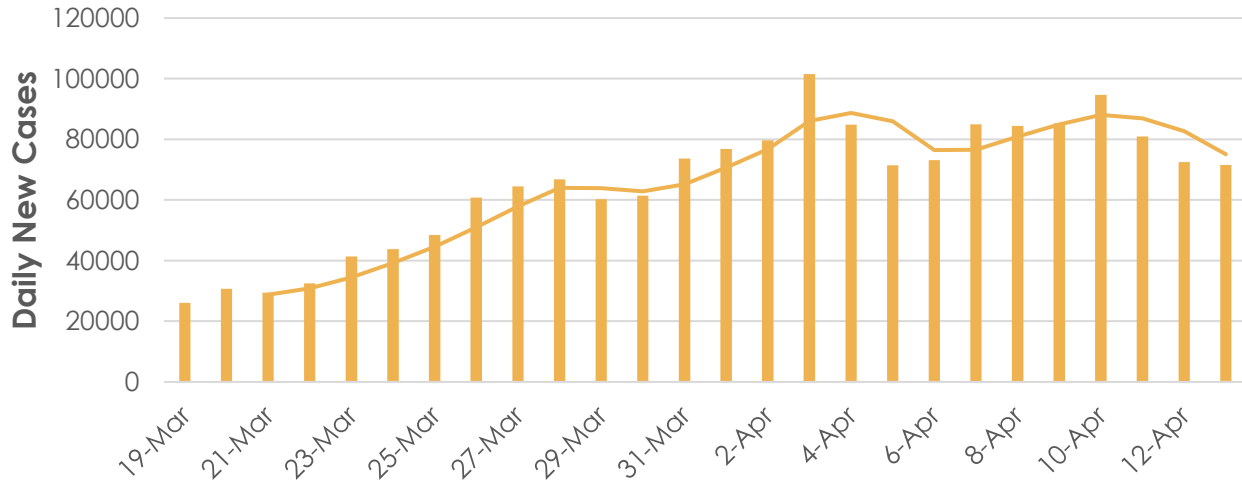


Table 1.a

GROWTH IN NEW CASES SINCE THE DAY BEFORE

	3/19	3/20	3/21	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
USA	1.591	1.235	0.862	1.936	1.089	1.091	1.204	1.290	1.085	1.041	1.024	1.022	1.216	1.070	1.128	1.081	1.059	0.740	1.198	1.099	0.958	1.050	1.006	0.889	0.914	0.972
Spain	1.124	1.056	1.123	0.834	1.946	1.087	1.077	1.109	0.959	0.947	0.915	1.141	1.015	1.029	0.970	0.898	0.977	0.786	0.918	1.047	1.192	0.797	1.010	0.941	0.800	0.859
Italy	1.265	1.125	1.095	0.848	0.861	1.096	0.993	1.191	0.953	1.011	0.873	0.776	1.001	1.180	0.976	0.982	1.048	0.898	0.834	0.844	1.262	1.096	0.940	1.188	0.872	0.771
France	1.325	0.869	1.142	0.844	2.462	0.638	1.196	1.339	0.971	1.211	0.564	1.684	1.732	0.641	0.435	10.898	0.338	0.371	1.792	2.139	0.351	1.237	1.484	0.672	0.614	1.426
Germany	1.011	1.513	0.556	0.997	1.667	0.941	1.101	1.527	1.048	0.984	0.695	0.939	1.106	1.254	1.104	0.934	0.775	0.817	0.807	1.319	1.314	0.877	0.797	0.834	0.732	0.923
UK	0.951	1.110	1.450	0.643	1.454	1.476	1.018	1.466	1.355	0.882	0.956	1.076	1.149	1.437	0.981	1.049	0.839	1.580	0.644	0.956	1.511	0.791	1.998	0.603	1.011	0.821
China	1.147	1.051	1.122	0.848	2.000	0.603	1.426	0.821	0.982	0.833	0.000	---	0.456	0.972	0.886	0.613	1.579	1.300	0.821	1.938	1.016	0.667	1.095	2.152	1.091	0.824
Iran	0.878	1.183	0.781	1.064	1.373	1.249	1.252	1.083	1.225	1.051	0.943	1.098	0.976	0.961	0.962	0.944	0.943	0.970	0.916	0.919	0.956	0.818	1.207	0.932	0.902	0.976
Switzerland	2.968	1.258	0.896	0.490	2.162	0.819	0.943	0.896	1.222	1.028	0.656	1.452	0.625	1.703	0.911	0.736	1.154	0.662	0.936	1.070	1.723	0.751	0.649	1.112	0.554	0.886
Austria	1.697	0.882	0.730	1.720	1.512	0.907	0.377	4.331	0.597	0.728	0.901	1.605	0.677	0.945	0.787	0.945	0.651	1.051	0.911	1.390	0.886	0.997	1.046	0.778	0.565	0.691
Israel	2.542	0.115	6.357	1.056	1.973	1.315	0.900	0.738	1.056	1.708	1.075	0.713	1.480	1.107	1.042	0.746	0.741	1.369	0.819	0.726	0.453	3.615	0.780	0.761	1.200	1.097
S Korea	1.634	0.572	1.690	0.667	0.653	1.188	1.316	1.040	0.875	1.604	0.719	0.743	1.603	0.808	0.881	0.966	1.093	0.862	0.580	1.000	1.128	0.736	0.692	1.111	1.067	0.781
Australia	1.135	1.075	0.837	3.729	0.518	1.547	0.835	1.042	0.877	0.784	2.054	0.563	1.020	0.941	0.933	0.526	0.686	2.083	0.725	0.641	0.688	1.563	0.860	0.756	0.154	4.600
Cyprus	1.000	0.889	1.125	1.222	1.909	0.381	1.000	1.750	1.143	1.063	2.059	0.457	2.000	1.813	0.621	1.111	0.750	0.667	0.950	1.526	1.103	1.188	0.816	0.677	0.810	1.706
Hawaii	3.333	1.100	1.000	0.727	2.500	0.700	0.429	1.833	1.273	2.214	0.774	1.208	0.690	1.700	0.794	1.259	0.941	0.625	0.800	1.438	1.087	0.280	3.286	0.913	0.619	0.385
Worldwide	1.271	1.174	0.960	1.102	1.275	1.058	1.107	1.254	1.061	1.035	0.903	1.019	1.199	1.043	1.037	1.274	0.835	0.842	1.024	1.161	0.993	1.010	1.111	0.856	0.896	0.987

Table 1.b

AVERAGE GROWTH OF LAST FIVE DAYS

	3/23-27	3/24-28	3/25-29	3/26-30	3/27-31	3/28-4/1	3/29-4/2	3/30-4/3	3/31-4/4	4/1-4/5	4/2-4/6	4/3-4/7	4/4-4/8	4/5-4/9	4/6-4/10	4/7-4/11	4/8-4/12	4/9-4/13
USA	1.152	1.142	1.129	1.092	1.077	1.074	1.092	1.103	1.111	1.016	1.041	1.035	1.011	1.009	1.062	1.001	0.964	0.966
Spain	1.236	1.036	1.002	1.014	0.996	1.009	1.014	1.011	0.978	0.932	0.910	0.925	0.984	0.948	0.993	0.997	0.948	0.881
Italy	1.019	1.049	1.004	0.961	0.923	0.968	0.961	0.983	1.037	1.017	0.948	0.921	0.977	0.987	0.995	1.066	1.072	0.973
France	1.321	1.071	1.056	1.154	1.232	1.166	1.011	3.078	2.809	2.537	2.767	3.107	0.998	1.178	1.400	1.176	0.871	1.086
Germany	1.257	1.120	1.071	1.039	0.954	0.996	1.019	1.067	1.035	0.977	0.887	0.930	1.006	1.027	1.023	1.028	0.911	0.833
UK	1.354	1.239	1.135	1.147	1.084	1.100	1.120	1.138	1.091	1.177	1.019	1.014	1.106	1.096	1.180	1.172	1.183	1.045
China	1.166	0.933	0.812	0.659	0.568	0.565	0.578	0.732	0.901	1.070	1.040	1.250	1.331	1.148	1.107	1.374	1.204	1.166
Iran	1.236	1.172	1.111	1.080	1.059	1.006	0.988	0.988	0.957	0.956	0.947	0.938	0.941	0.916	0.963	0.966	0.963	0.967
Switzerland	1.208	0.982	0.949	1.051	0.996	1.093	1.069	1.085	1.026	1.033	0.880	0.912	1.109	1.028	1.026	1.061	0.958	0.790
Austria	1.545	1.388	1.387	1.632	0.902	0.971	0.983	0.992	0.801	0.876	0.869	0.990	0.978	1.047	1.046	1.020	0.855	0.815
Israel	1.196	1.143	1.095	1.058	1.206	1.217	1.084	1.018	1.023	1.001	0.943	0.880	0.821	1.396	1.279	1.267	1.362	1.491
S Korea	1.014	1.205	1.111	0.996	1.109	1.095	0.951	1.000	1.070	0.922	0.876	0.900	0.933	0.861	0.827	0.933	0.947	0.877
Australia	0.964	1.017	1.118	1.064	1.060	1.072	1.102	0.797	0.821	1.034	0.991	0.932	0.965	1.140	0.895	0.902	0.804	1.586
Cyprus	1.237	1.067	1.403	1.294	1.344	1.478	1.390	1.200	1.259	0.992	0.820	1.001	0.999	1.087	1.117	1.062	0.919	1.039
Hawaii	1.347	1.290	1.305	1.461	1.232	1.317	1.033	1.130	1.077	1.064	0.884	1.013	0.978	0.846	1.378	1.401	1.237	1.096
Worldwide	1.151	1.103	1.072	1.054	1.043	1.040	1.040	1.115	1.078	1.006	1.003	1.027	0.971	1.006	1.060	1.026	0.973	0.972

Table 2

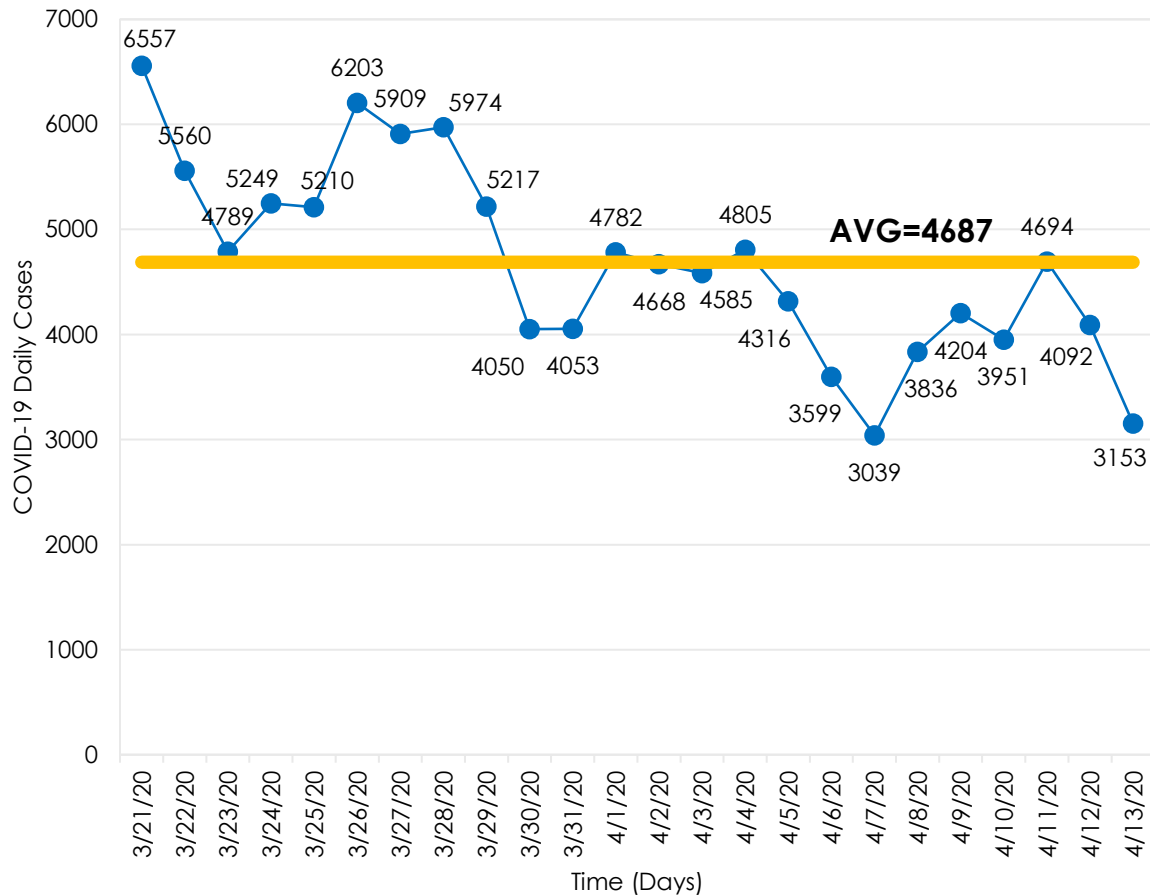
RATIO OF THE AVERAGE NEW CASES OF RECENT THREE DAYS TO MAX DAILY PEAK

	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

COVID-19
'MODIFIED' Control Chart Analysis

Italy

'Modified' Control Chart of COVID-19 Daily Cases in Italy (3/21/20 - 4/13/20)

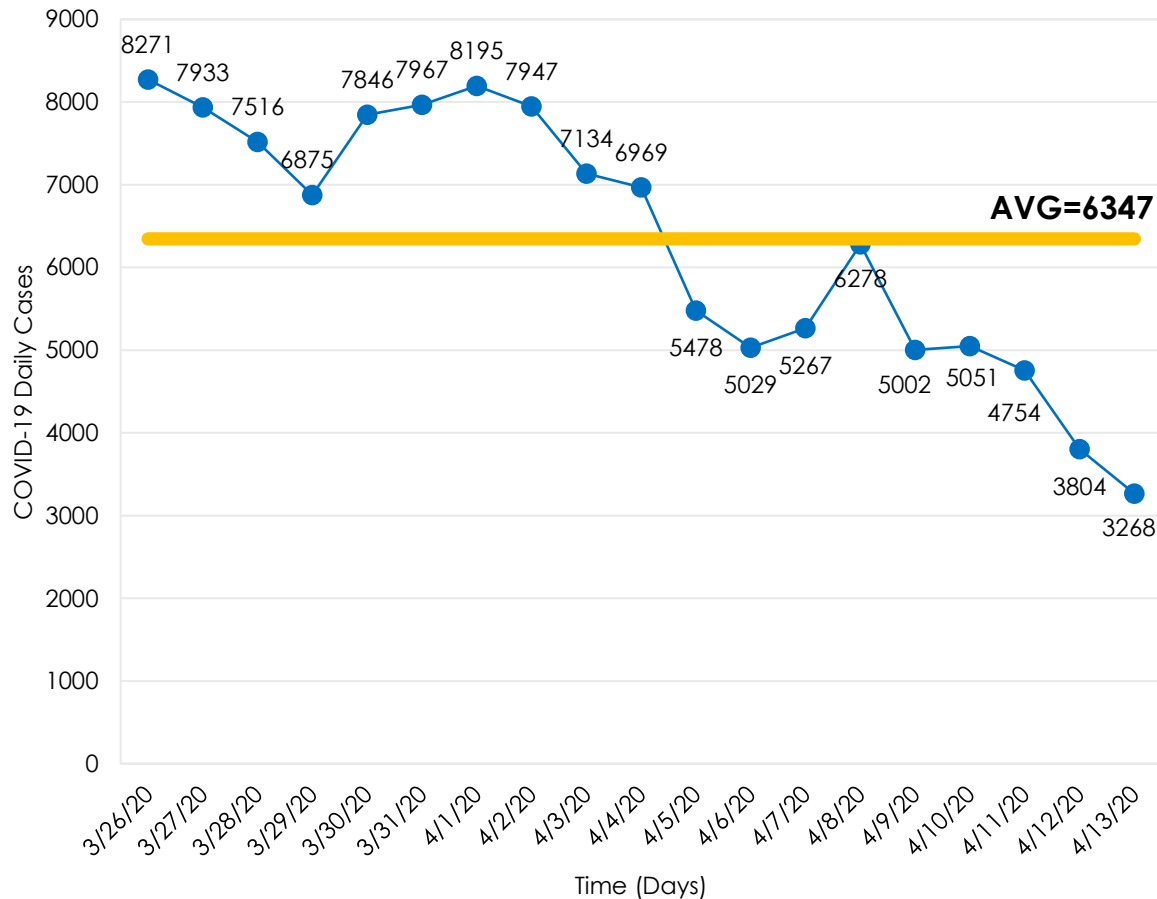


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last two points (4/11/20 and 4/13/20) 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 remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (4/9/20 - 4/10/20 and 4/12/20 - 4/13/20) 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.
- 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.

Spain

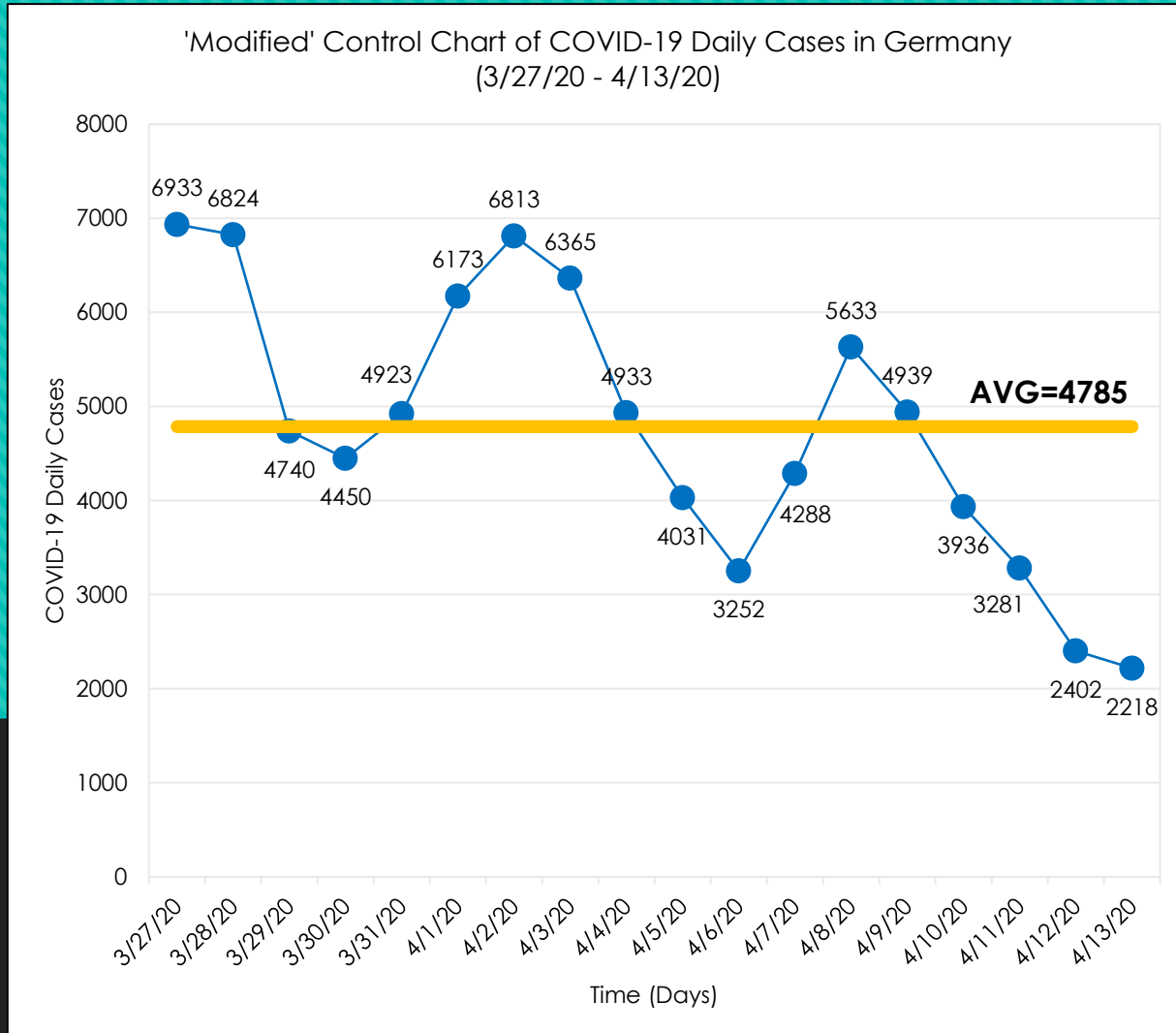
'Modified' Control Chart of COVID-19 Daily Cases in Spain (3/26/20 - 4/13/20)



'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 (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain. The linear trend line has a remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/9/20 - 4/13/20) 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. The linear trend line has a remarkable downward slope.
- Nine successive points are on one side of the centerline.
 - Nine consecutive points (4/5/20 - 4/13/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Spain are stabilizing in a positive direction.

Germany

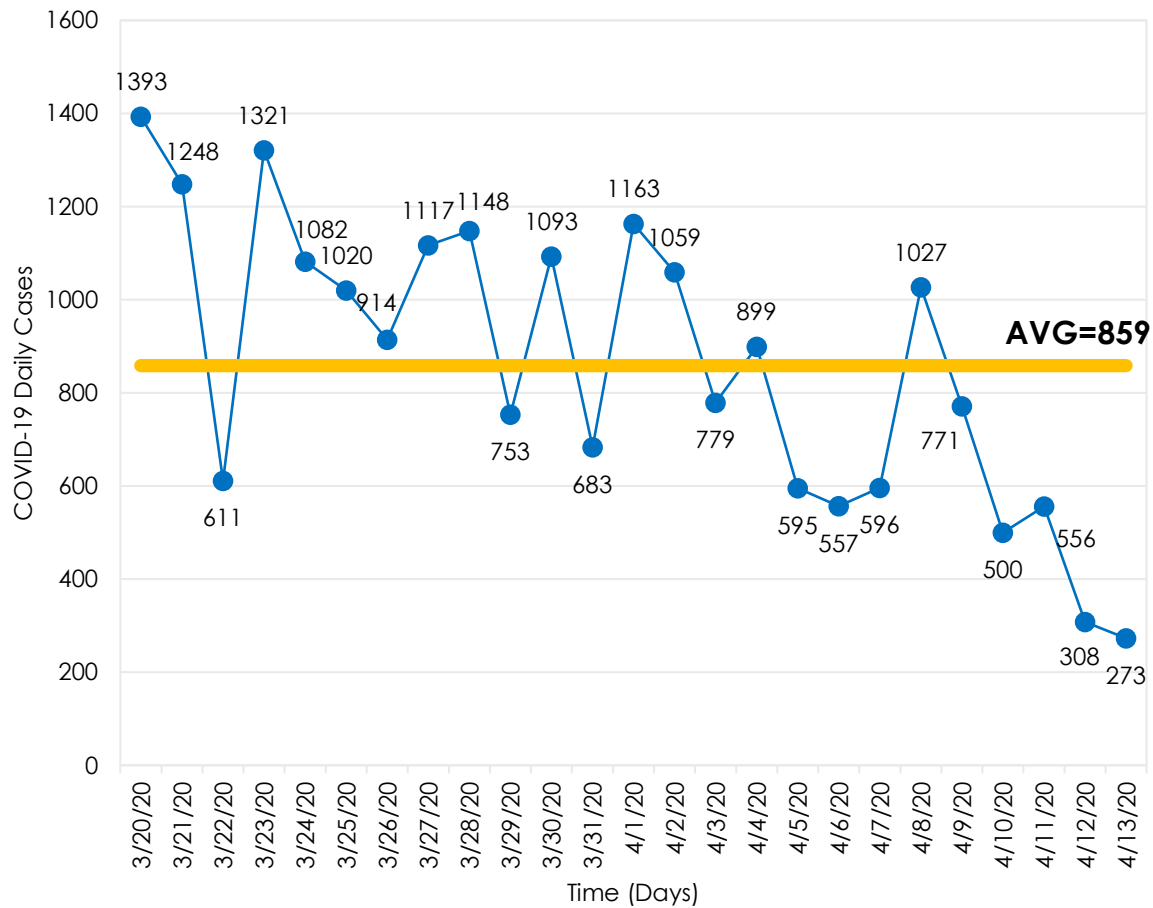


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. 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 (4/10/20 - 4/13/20) 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 remarkable downward slope.

Switzerland

'Modified' Control Chart of COVID-19 Daily Cases in Switzerland
(3/20/20 - 4/13/20)

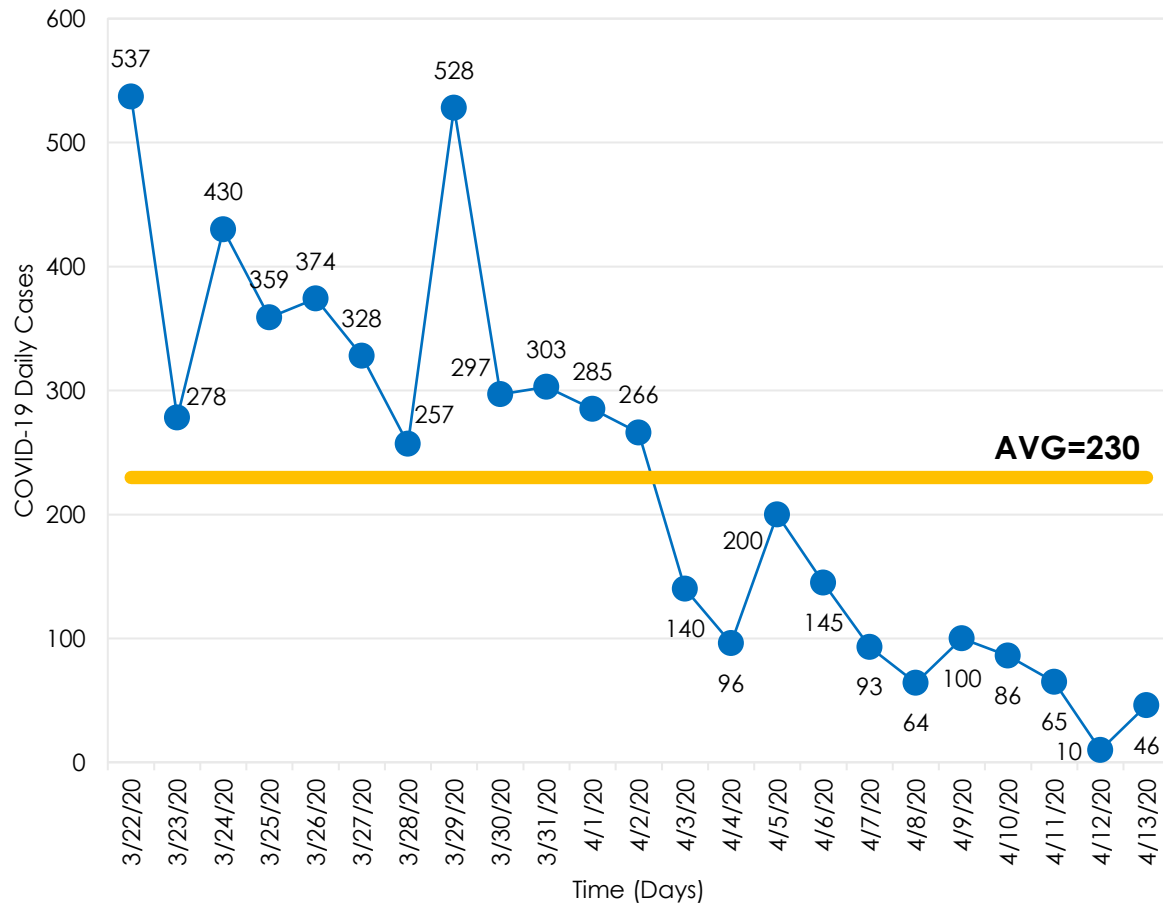


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 and 4/13/20) 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 (4/9/20 – 4/13/20) 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 remarkable downward slope.

Australia

'Modified' Control Chart of COVID-19 Daily Cases in Australia
(3/22/20 - 4/13/20)

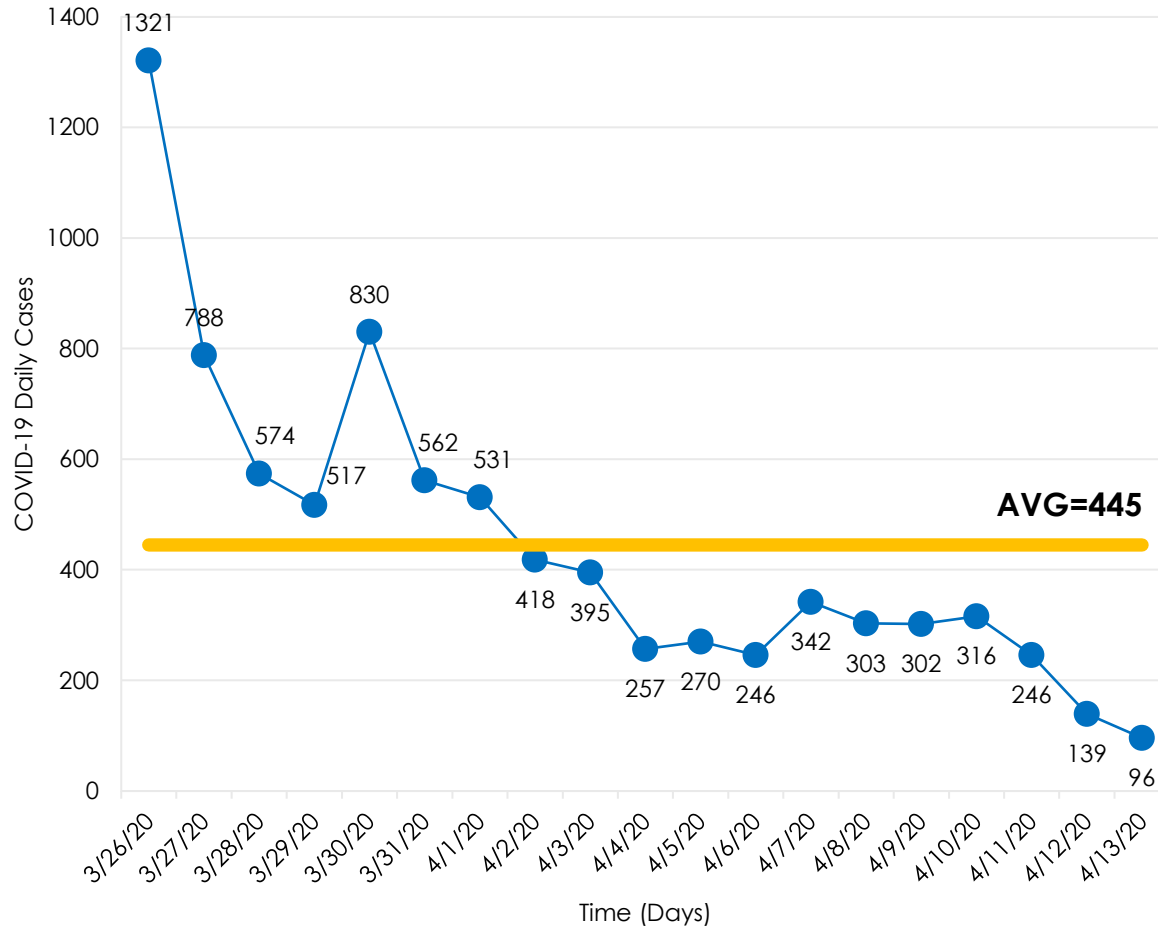


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) 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 (4/9/20 - 4/13/20) 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 (4/5/20 - 4/13/20) 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.

Austria

'Modified' Control Chart of COVID-19 Daily Cases in Austria (3/26/20 - 4/13/20)

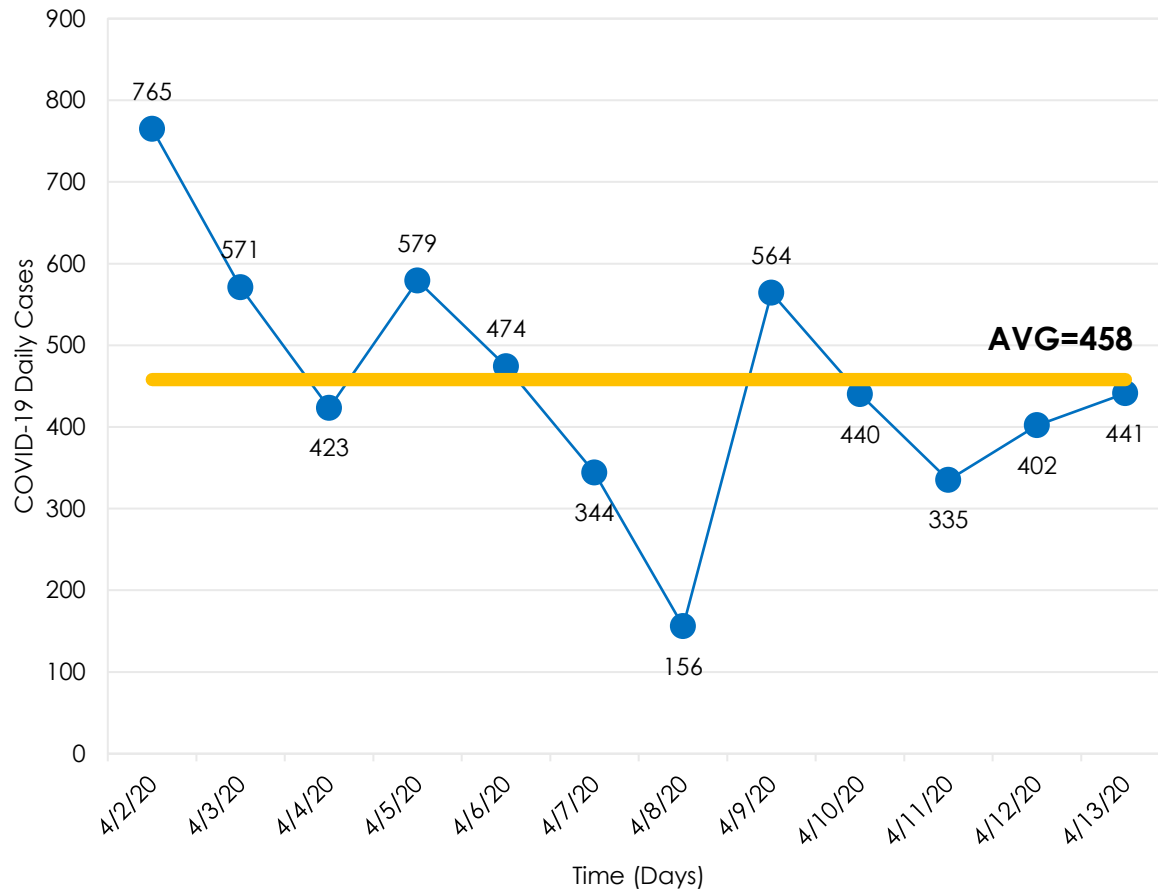


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Austria. The linear trend line has a remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (4/9/20 - 4/13/20) 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 remarkable downward slope.
- Nine successive points are on one side of the centerline.
 - Nine consecutive points (4/5/20 - 4/13/20) 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 - 4/13/20)

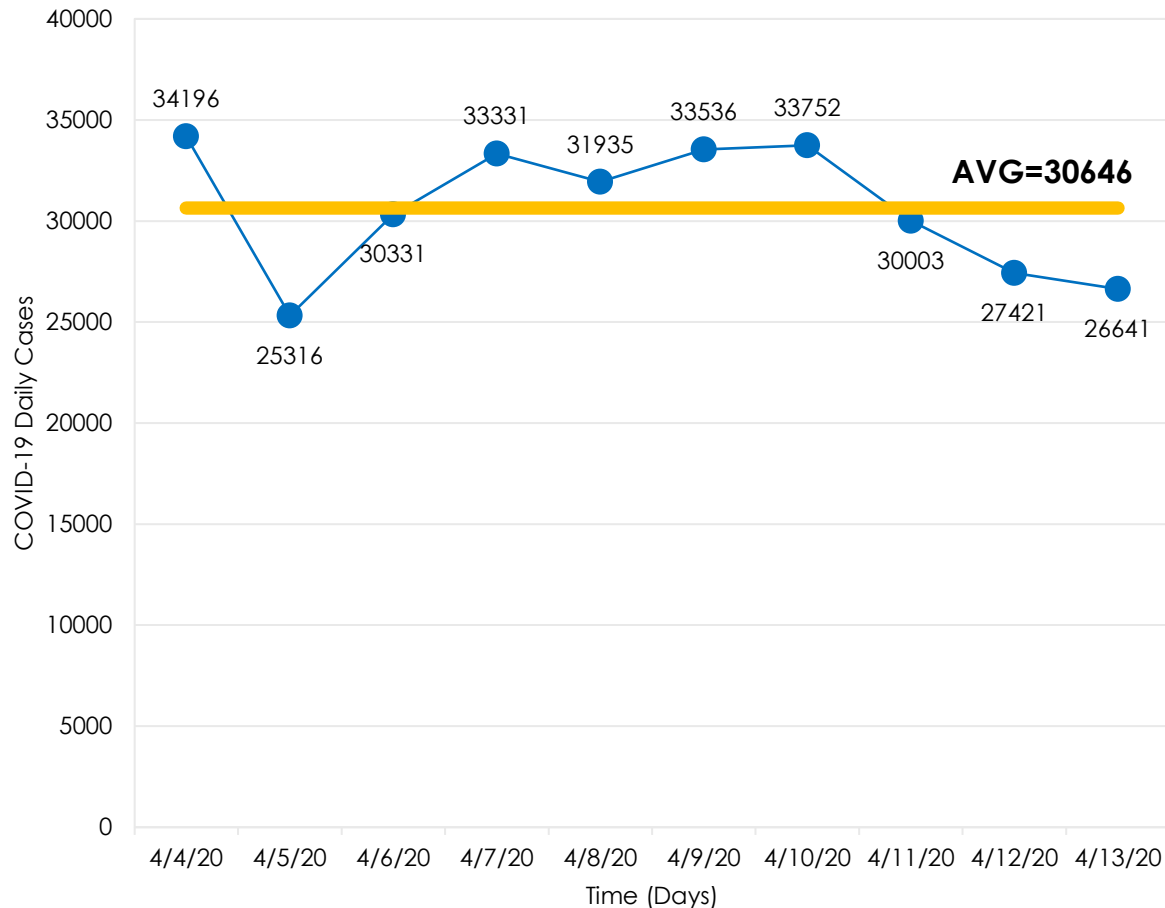


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) 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.
 - The last 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 Israel. A good 'out-of-control' sign.

USA

'Modified' Control Chart of COVID-19 Daily Cases in USA (4/4/20 - 4/13/20)

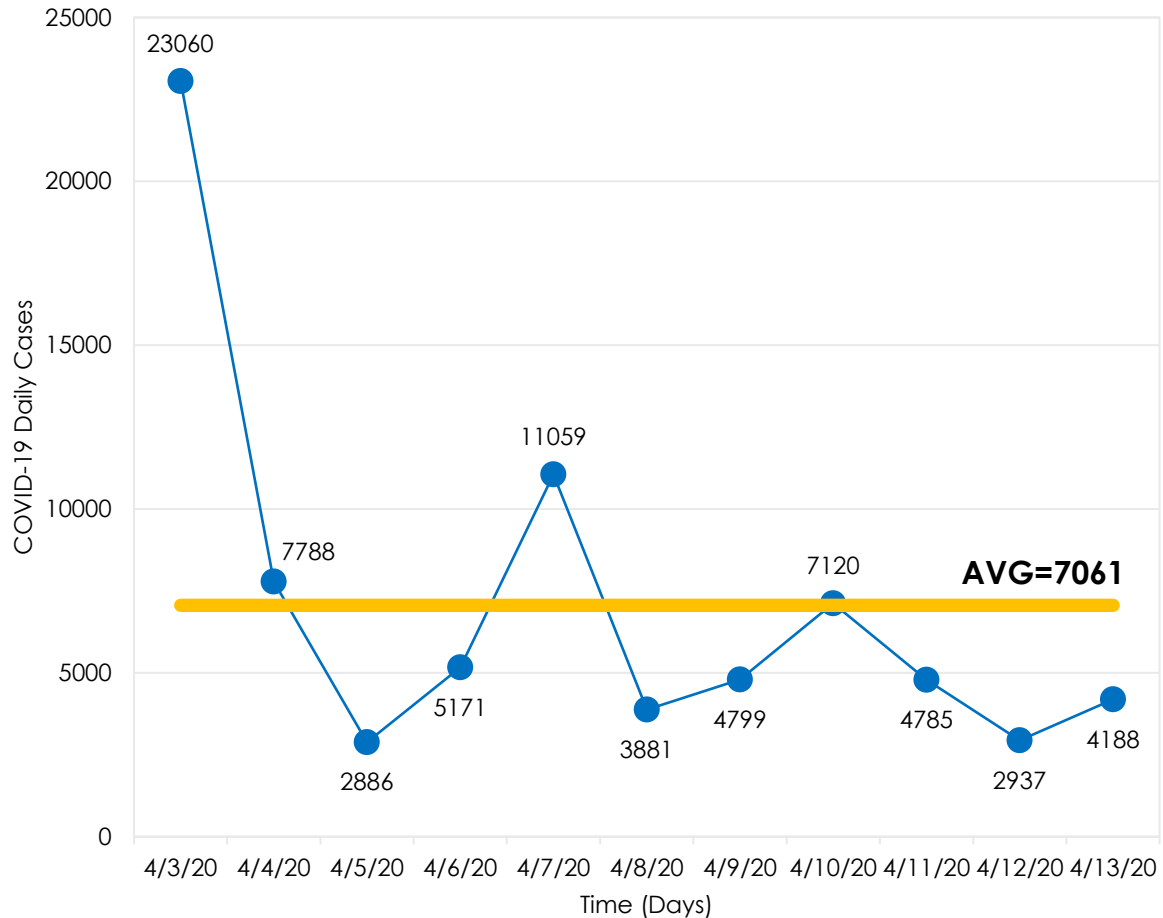


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in USA. 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.
 - Four points (4/7/20 - 4/10/20) are above the control line, which suggests a bad 'out-of-control' pattern for COVID-19 cases in USA. However, the downward slope after 4/10/20 suggests that daily cases are trending towards a positive direction.

France

'Modified' Control Chart of COVID-19 Daily Cases in France (4/3/20 - 4/13/20)

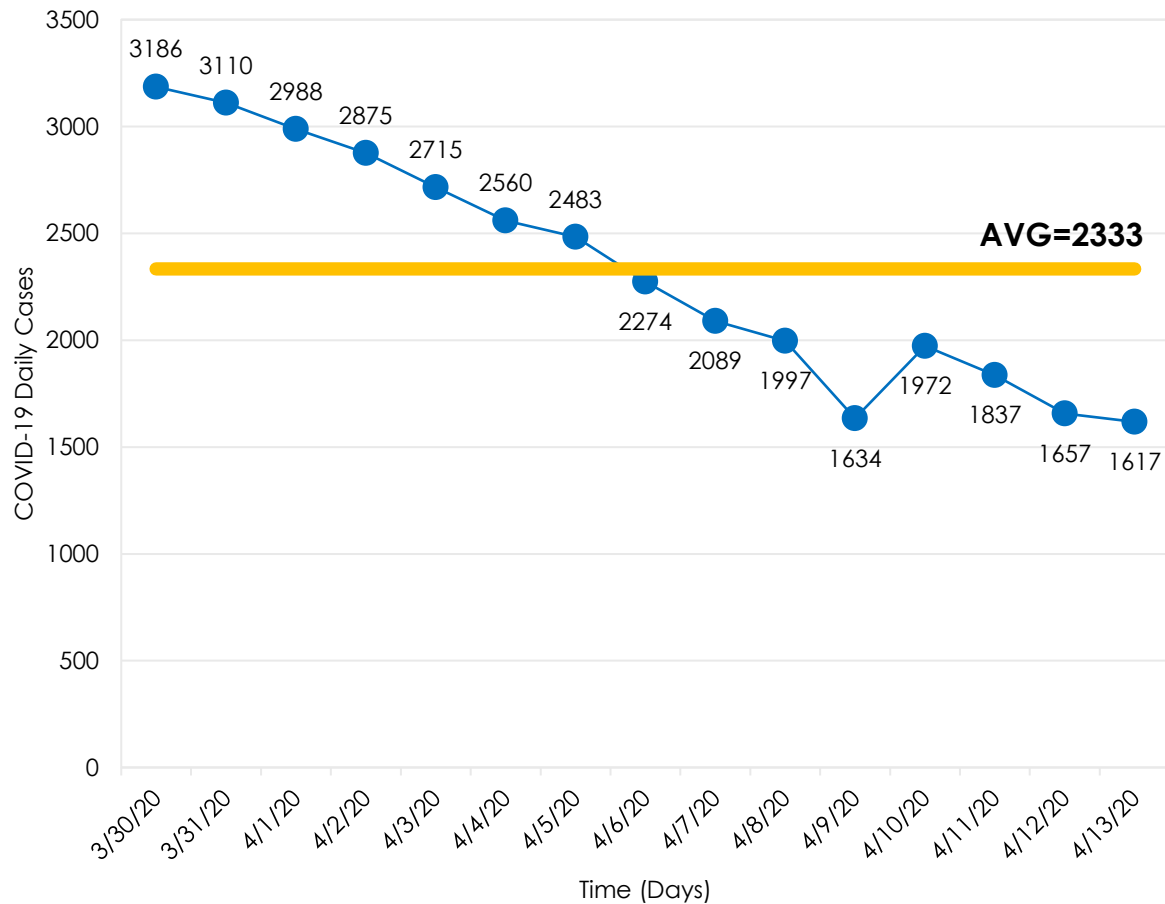


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (4/11/20 - 4/13/20) 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.
 - Four points (4/9/20 and 4/11/20 - 4/13/20) 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.

Iran

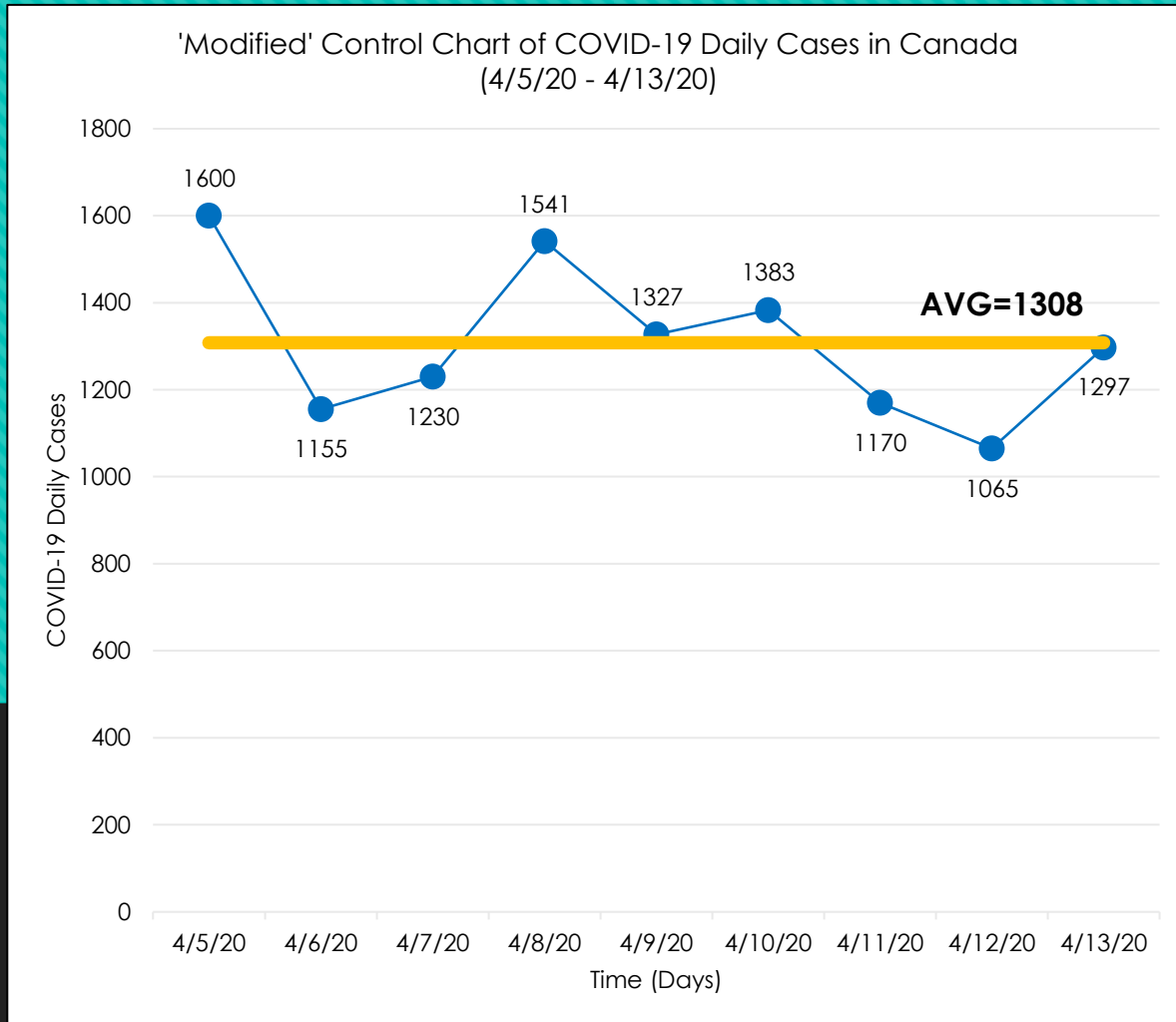
'Modified' Control Chart of COVID-19 Daily Cases in Iran (3/30/20 - 4/13/20)



'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 (4/11/20 - 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 (4/9/20 - 4/13/20) 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.
- There are six consecutive points, increasing or decreasing.
 - Six consecutive points (4/2/20 - 4/8/20) are decreasing, which indicates a good 'out-of-control' sign.

Canada

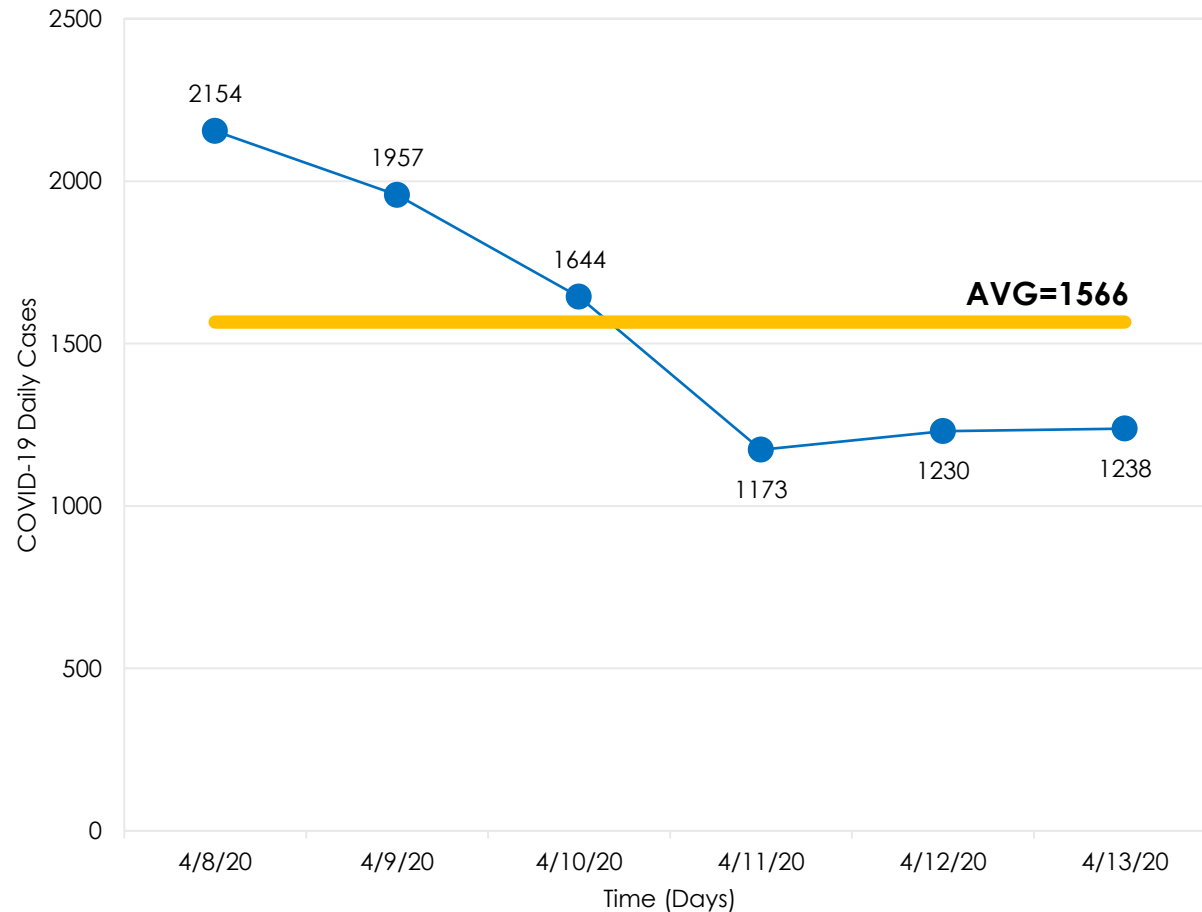


'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - 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 Canada. Also, a linear trend line with a downward slope can be observed from 4/5/20.

Brazil

'Modified' Control Chart of COVID-19 Daily Cases in Brazil (4/8/20 - 4/13/20)



'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 (4/11/20 - 4/13/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Brazil. Also, a linear trend line with a downward slope can be observed from 4/5/20.