

# COVID-19 Cases

As of Monday 4/20/2020, 6:00PM HST

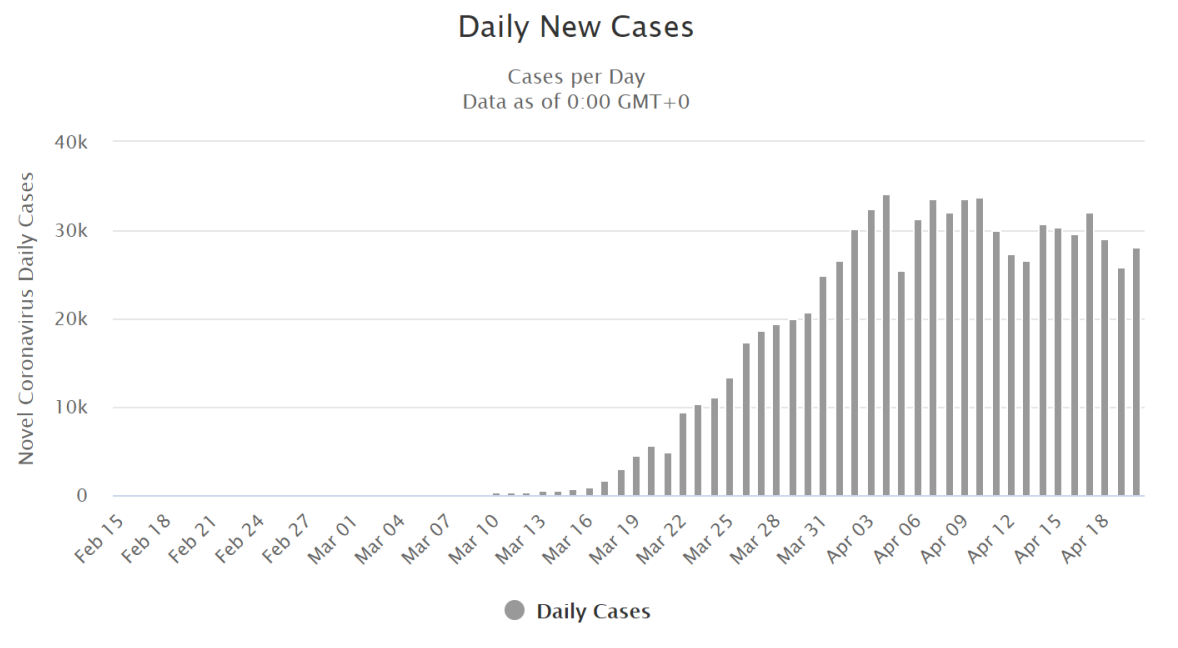
Statistics regarding daily new cases and active cases of the eight countries that has the highest number of total cases, Switzerland, Austria, Israel, South Korea, Australia, and Cyprus.

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

Statistics regarding daily new cases are also included for Hawaii.

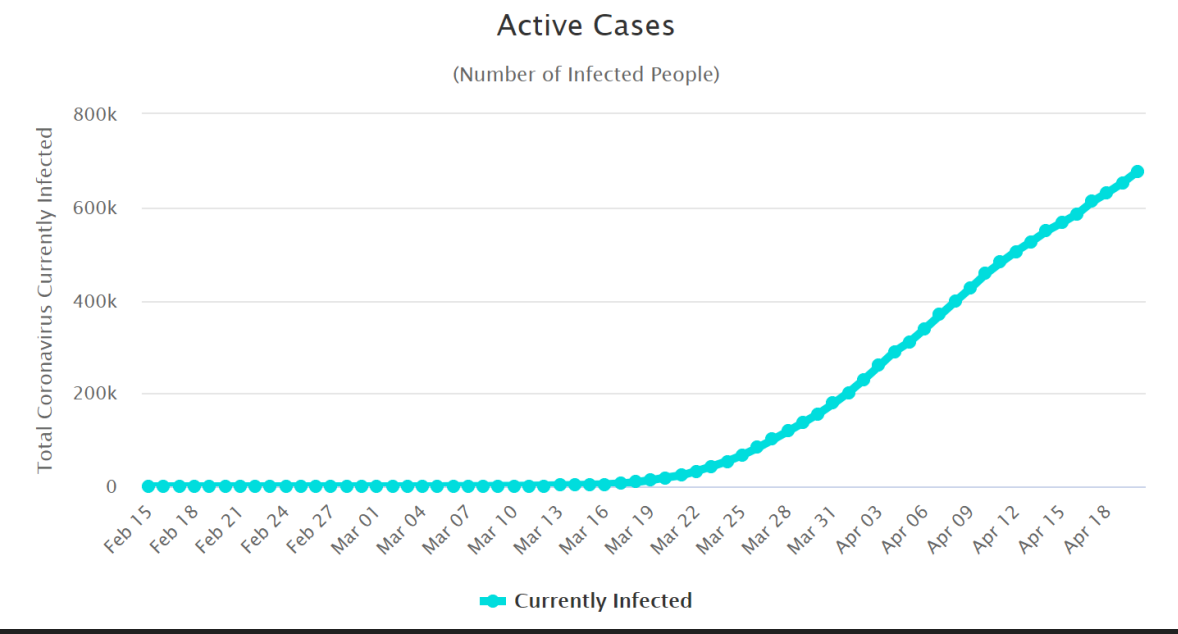
Source: <https://health.hawaii.gov/news/covid-19-updates/>

# Daily New Cases in the United States

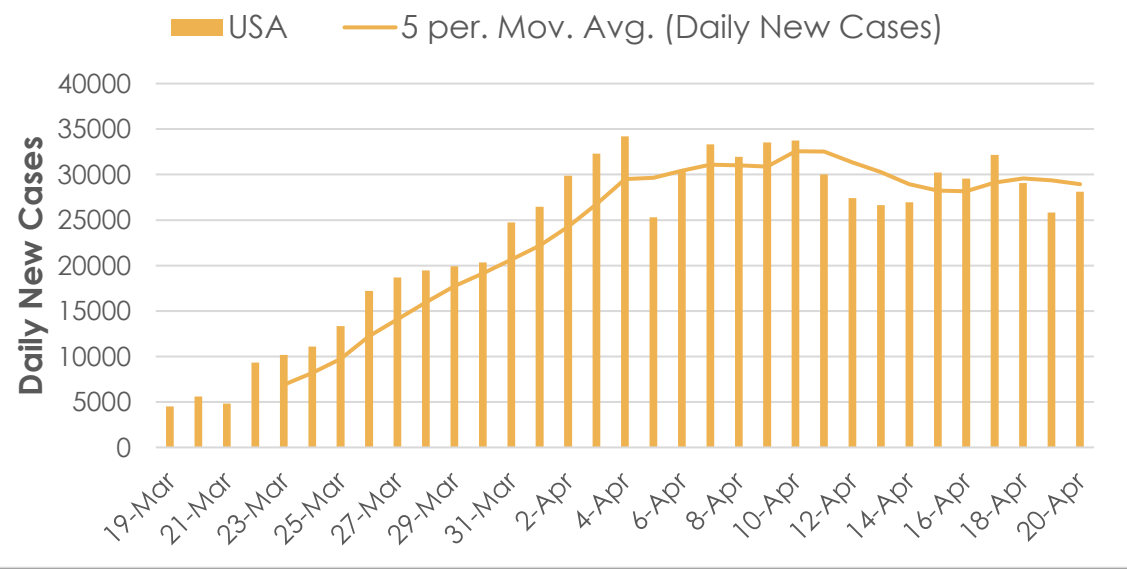


# 1. USA

# Active Cases in the United States

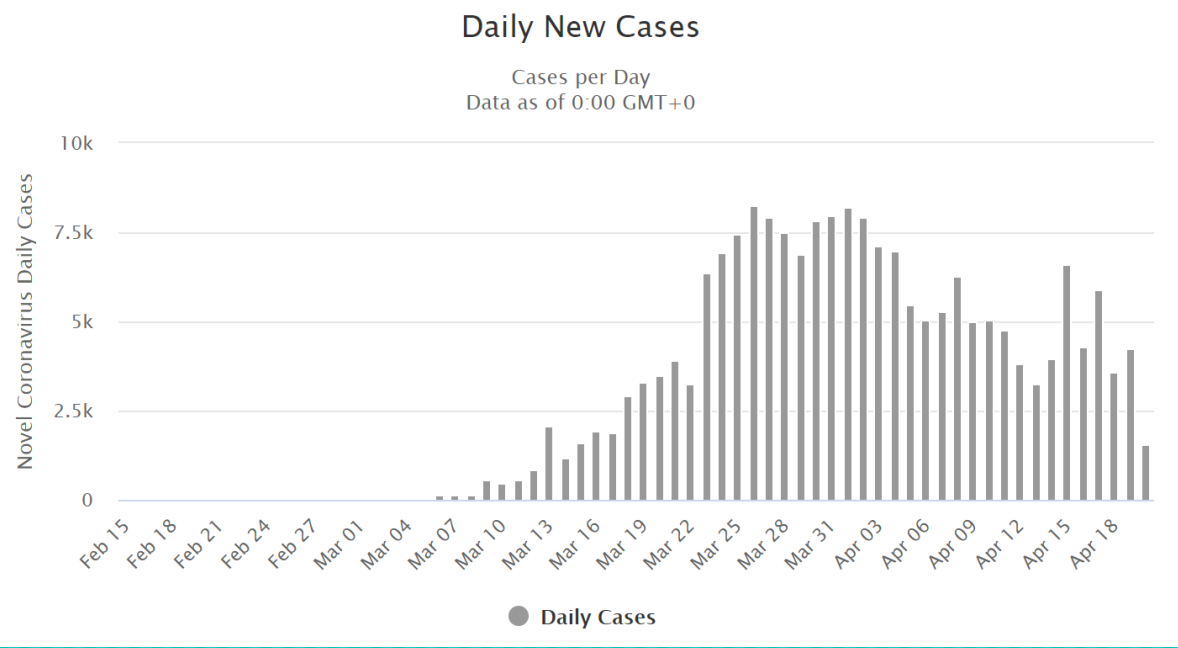


# 5-Day Moving Average Trendline

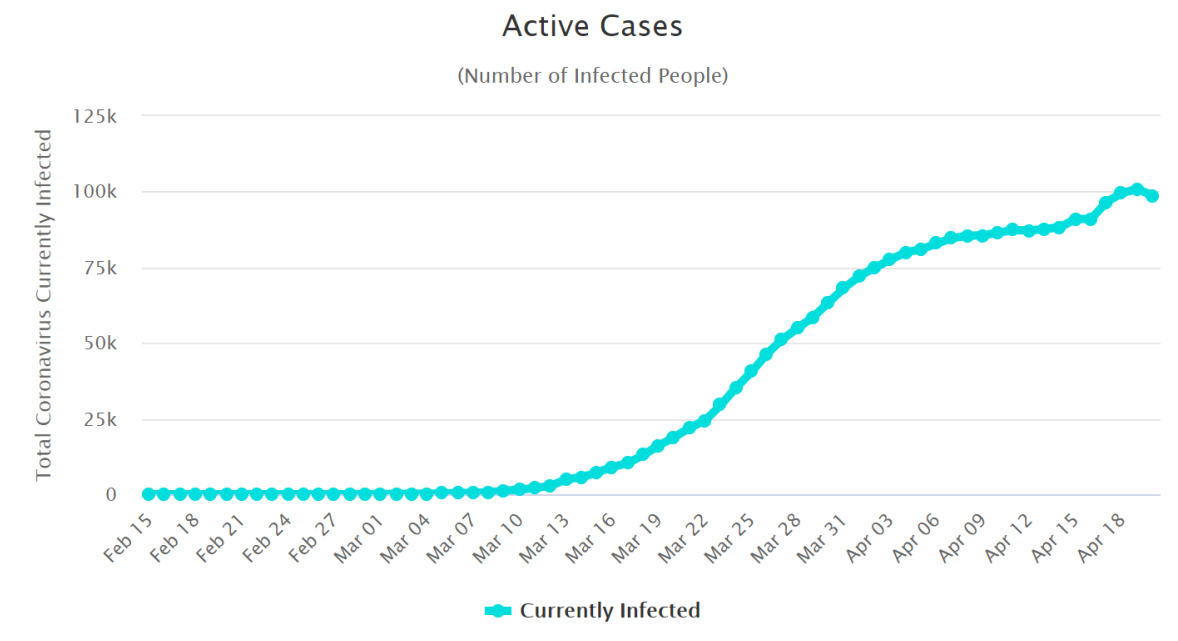


# 2. Spain

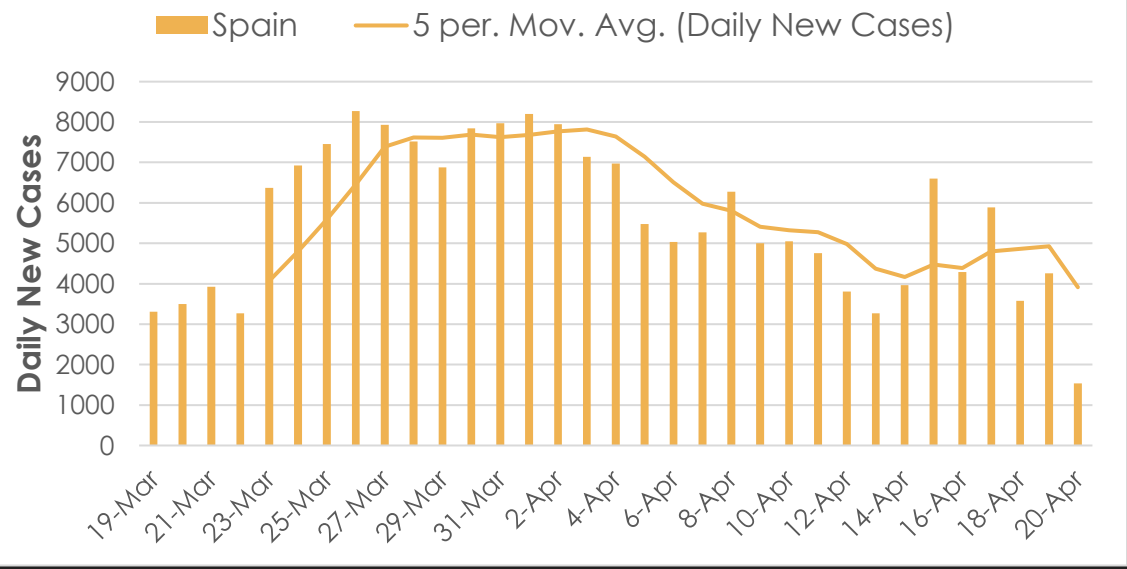
## Daily New Cases in Spain



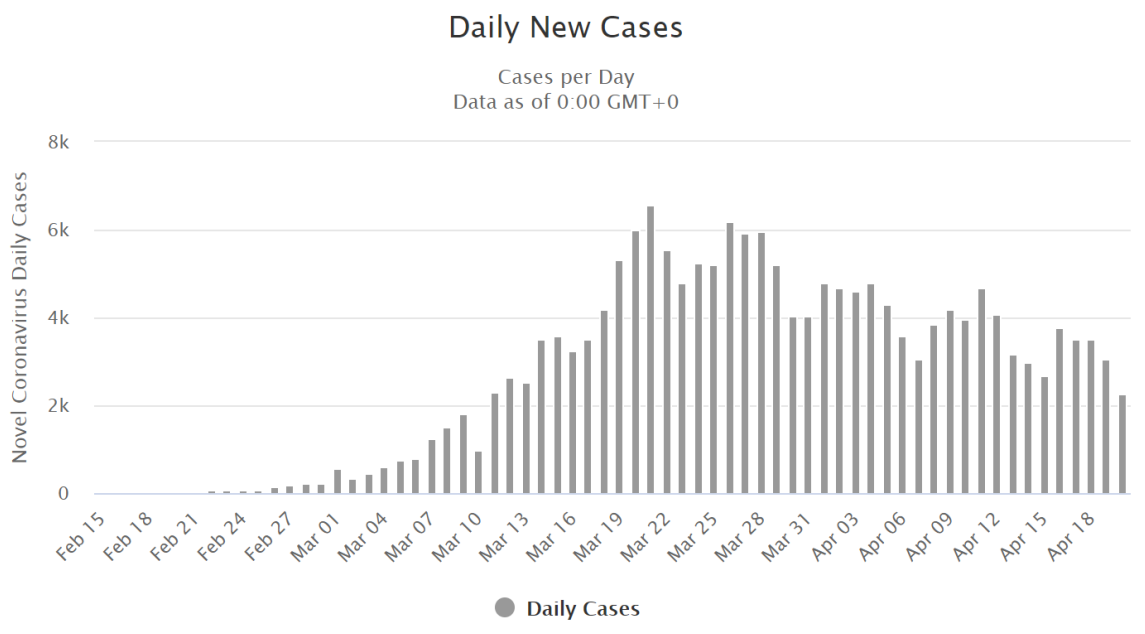
## Active Cases in Spain



## 5-Day Moving Average Trendline

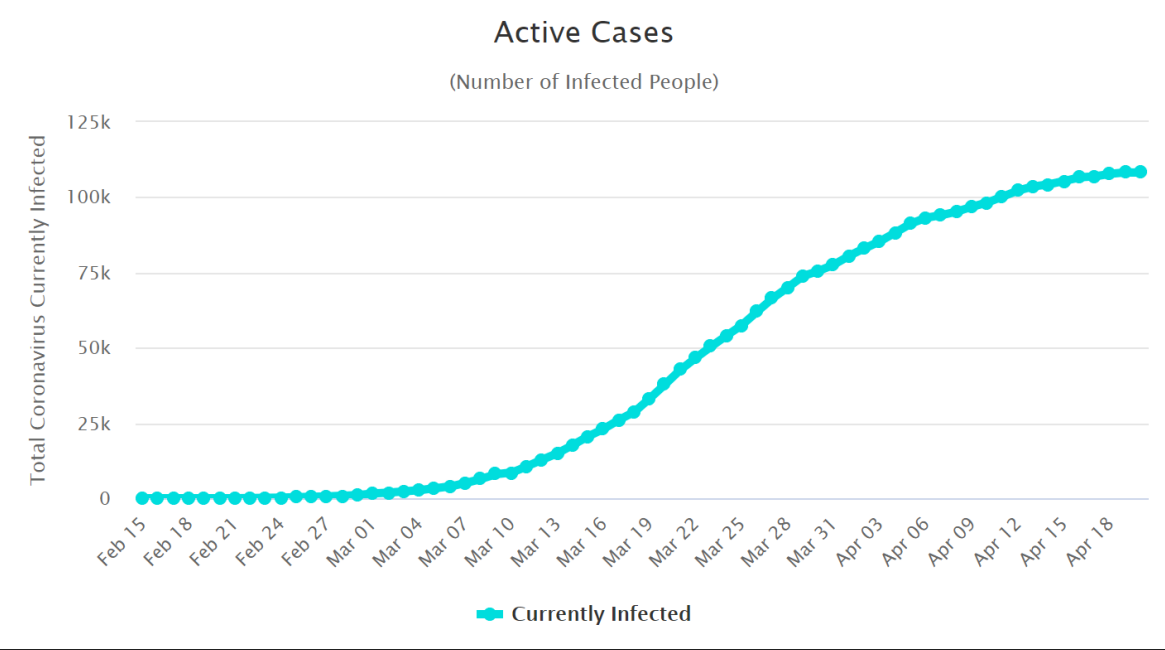


# Daily New Cases in Italy

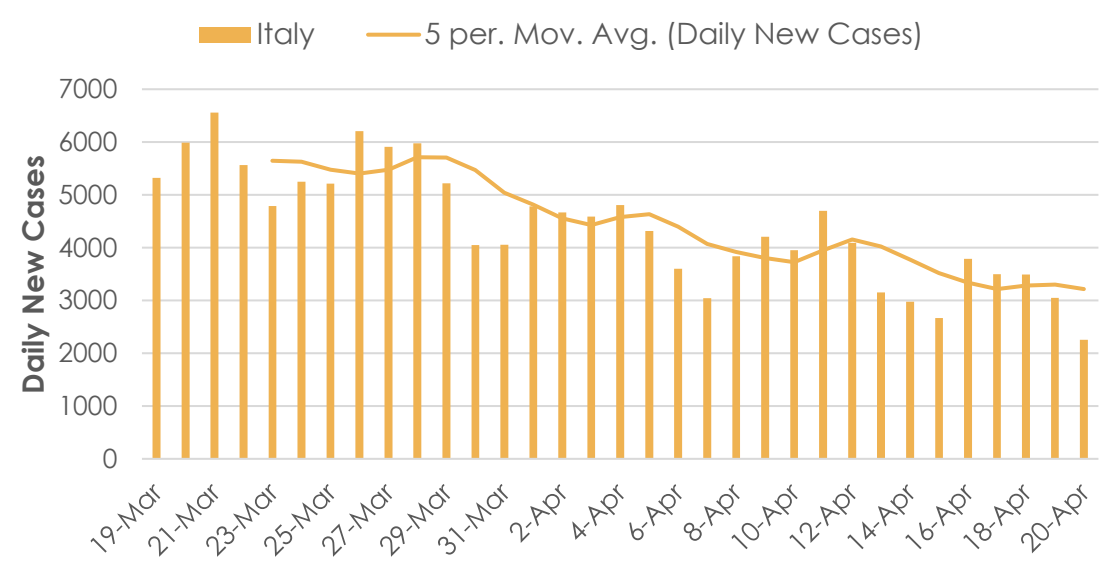


# 3. Italy

## Active Cases in Italy



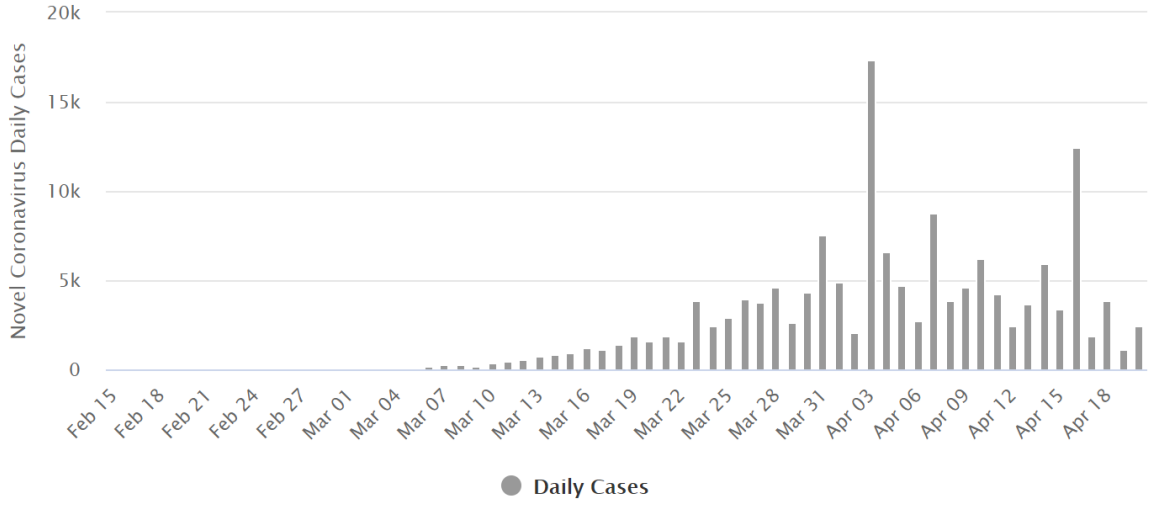
## 5-Day Moving Average Trendline



# Daily New Cases in France

## Daily New Cases

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



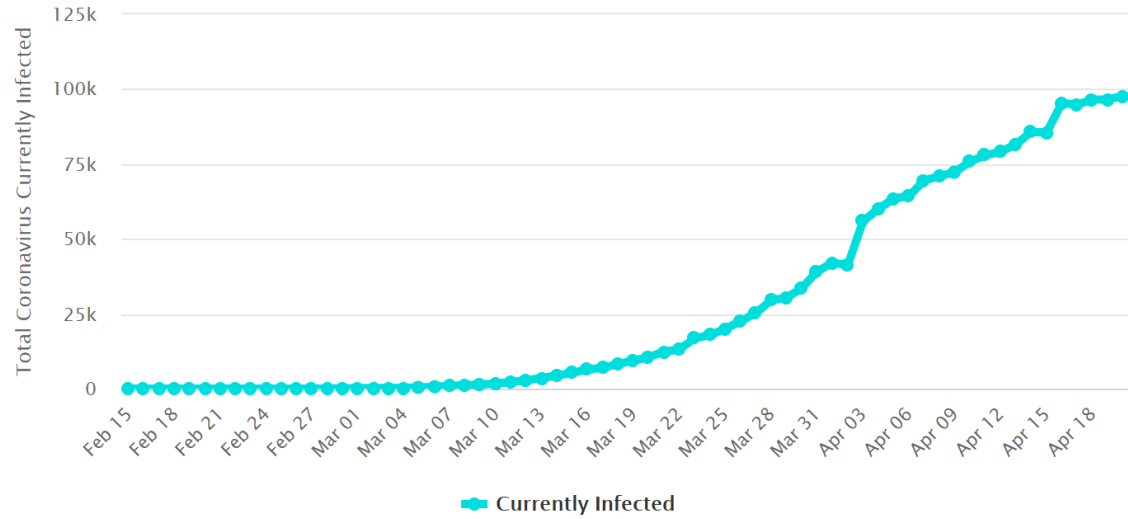
# 4. France

**Note:** The numbers for the “Daily New Cases” for the period of 4/3 – 4/16 were changed on April 17 on *Worldometers*.

## Active Cases in France

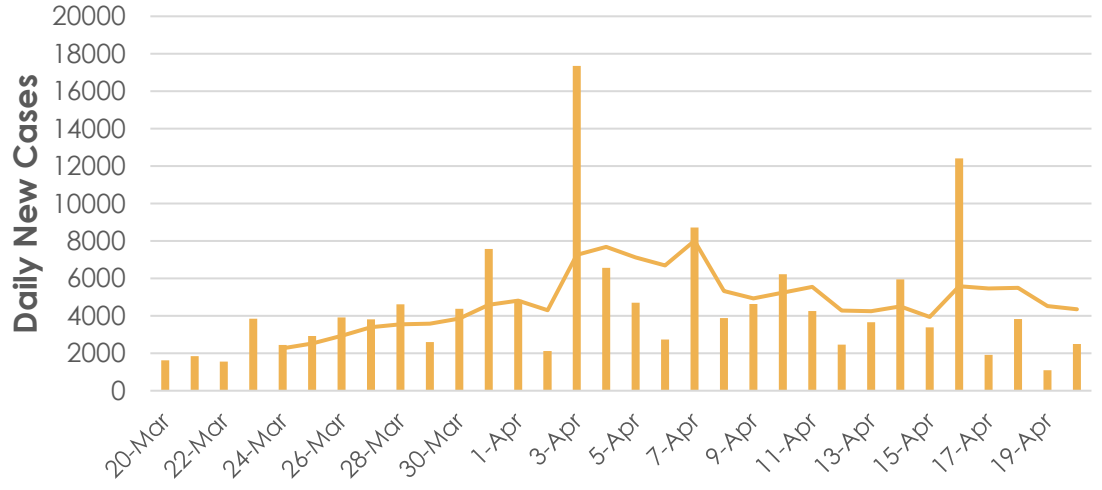
### Active Cases

(Number of Infected People)



## 5-Day Moving Average Trendline

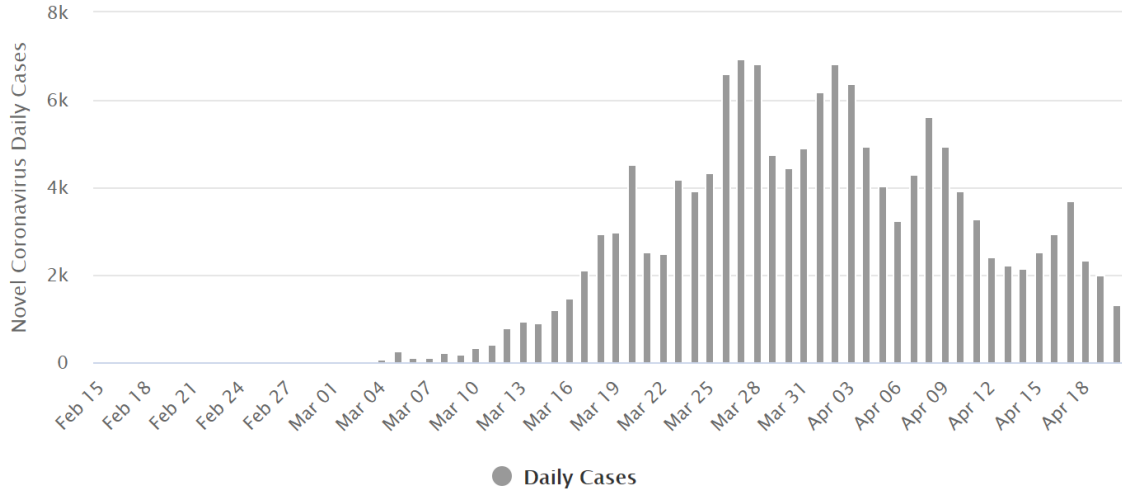
France 5 per. Mov. Avg. (Daily New Cases)



# Daily New Cases in Germany

### Daily New Cases

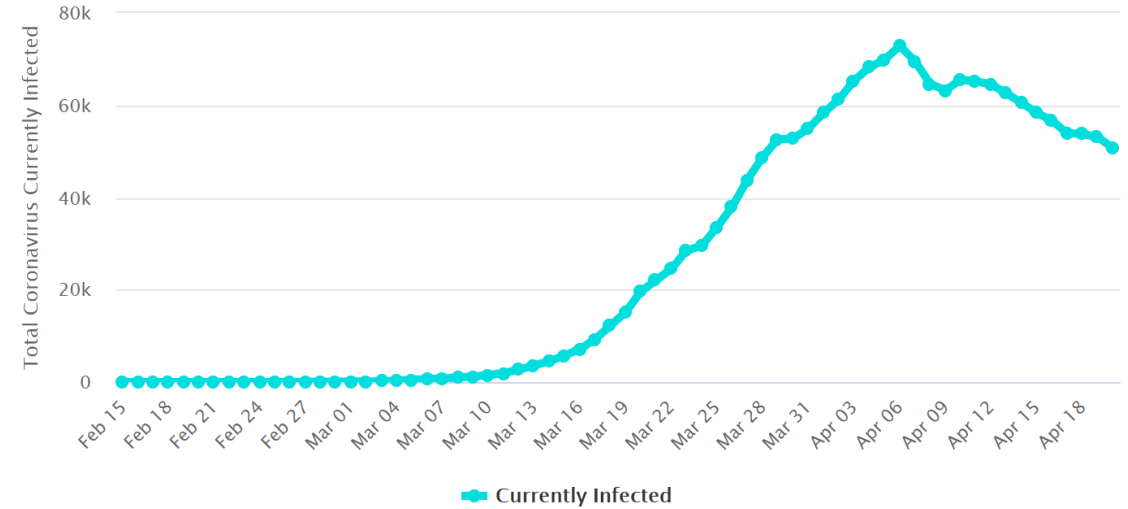
Cases per Day  
Data as of 0:00 GMT+0



# 5. Germany

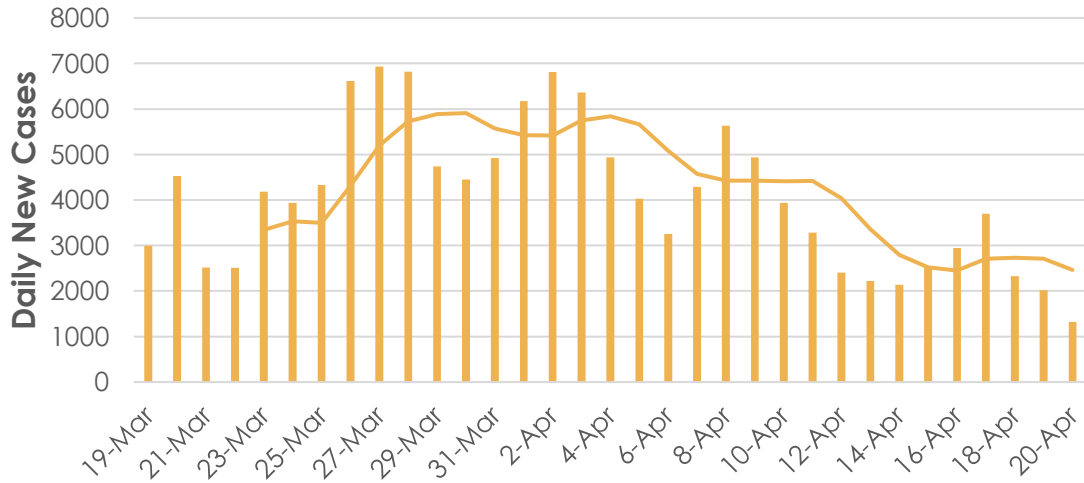
### Active Cases in Germany

Active Cases  
(Number of Infected People)



### 5-Day Moving Average Trendline

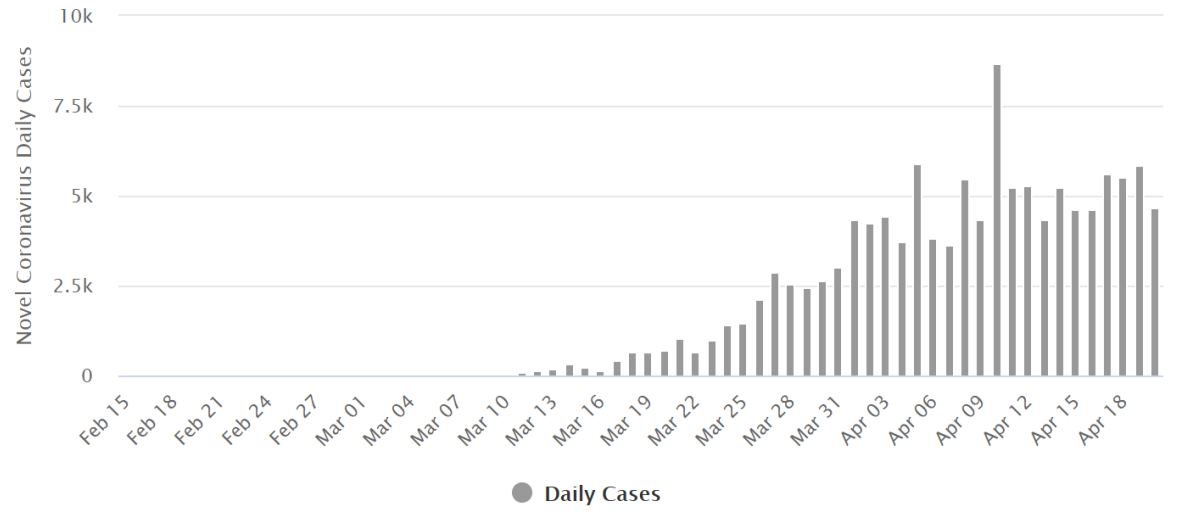
Germany 5 per. Mov. Avg. (Daily New Cases)



# Daily New Cases in the United Kingdom

## Daily New Cases

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

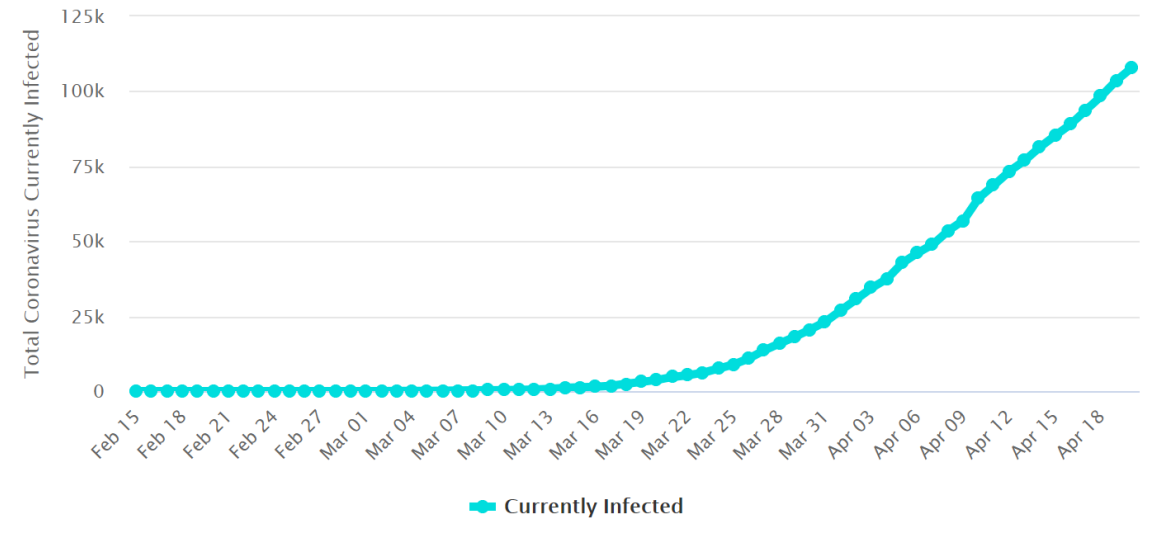


# 6. UK

## Active Cases in the United Kingdom

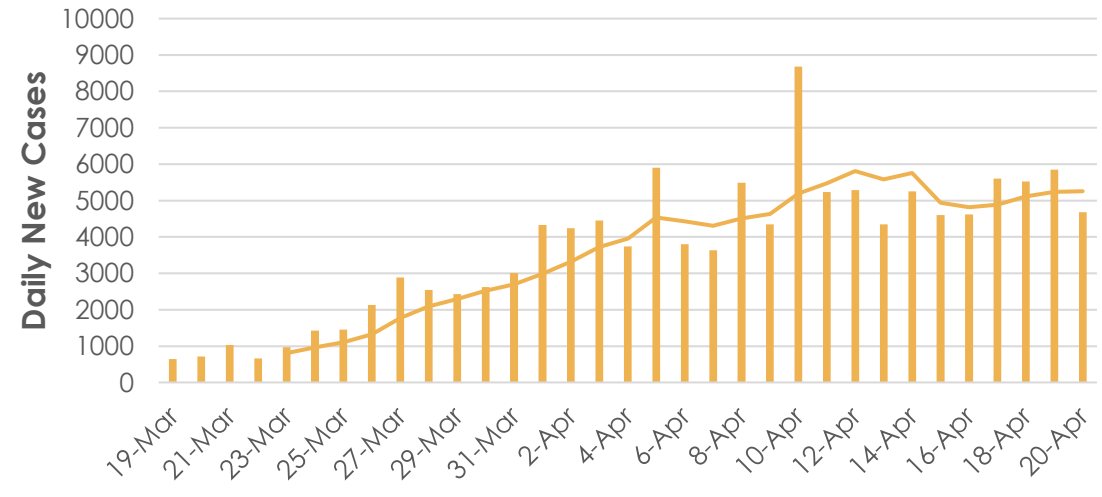
### Active Cases

(Number of Infected People)

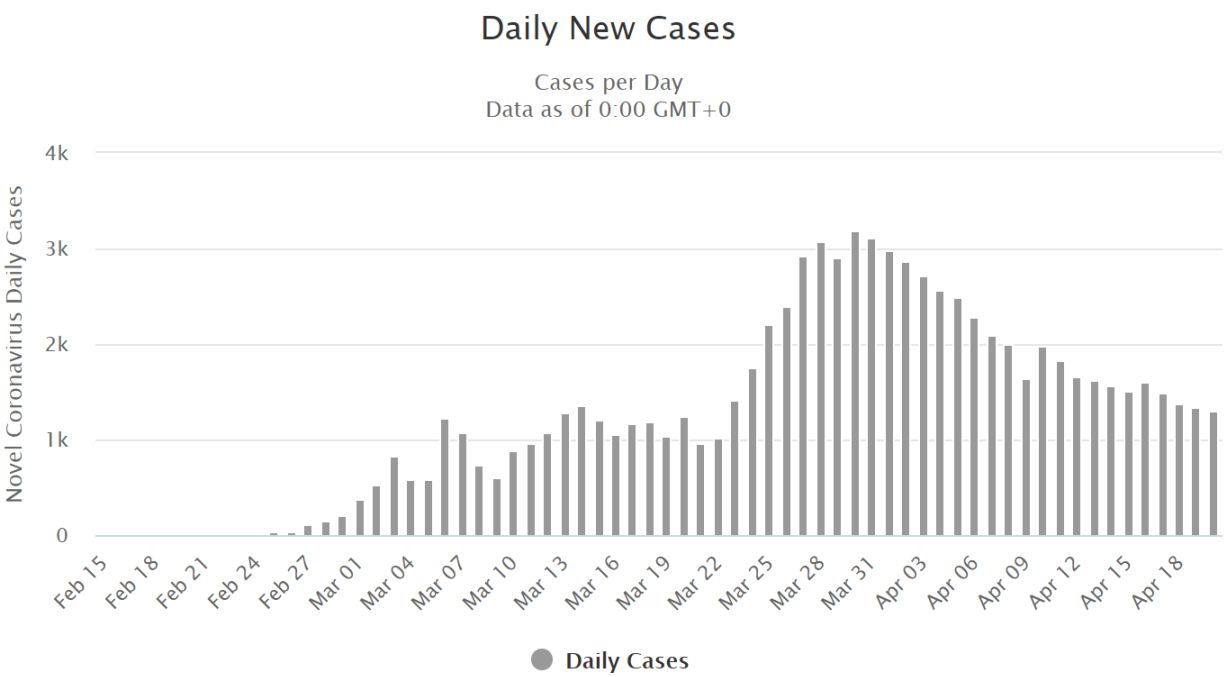


## 5-Day Moving Average Trendline

UK 5 per. Mov. Avg. (Daily New Cases)

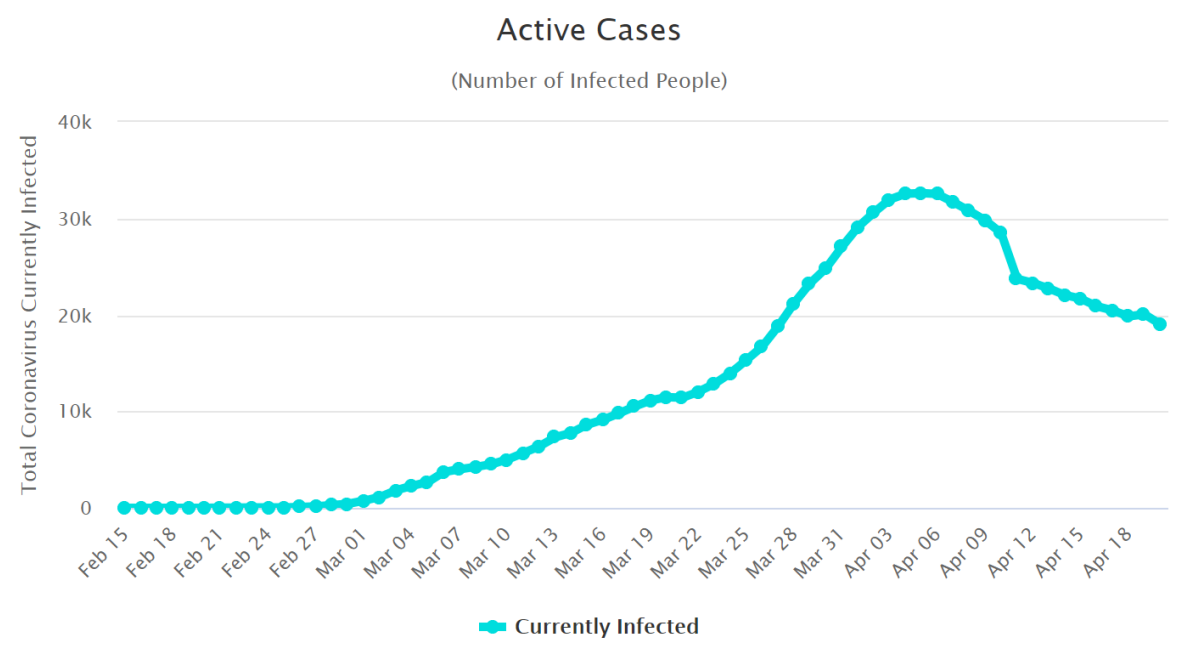


# Daily New Cases in Iran



# 7. Iran

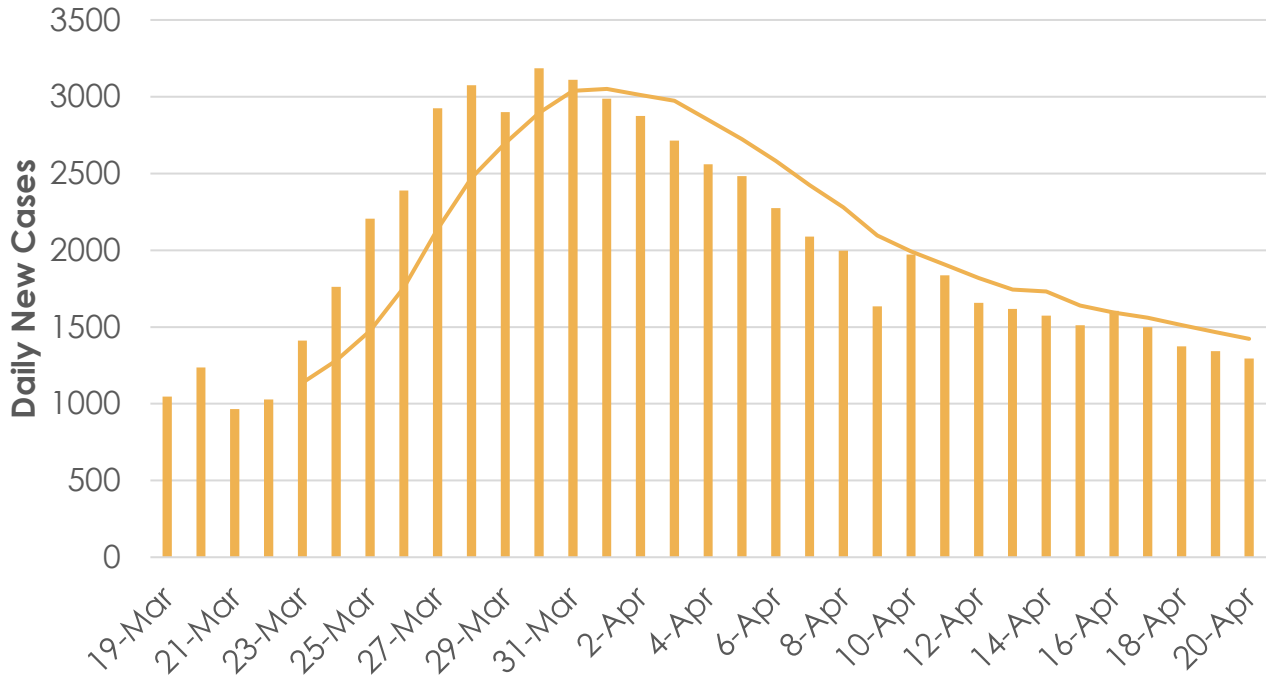
# Active Cases in Iran





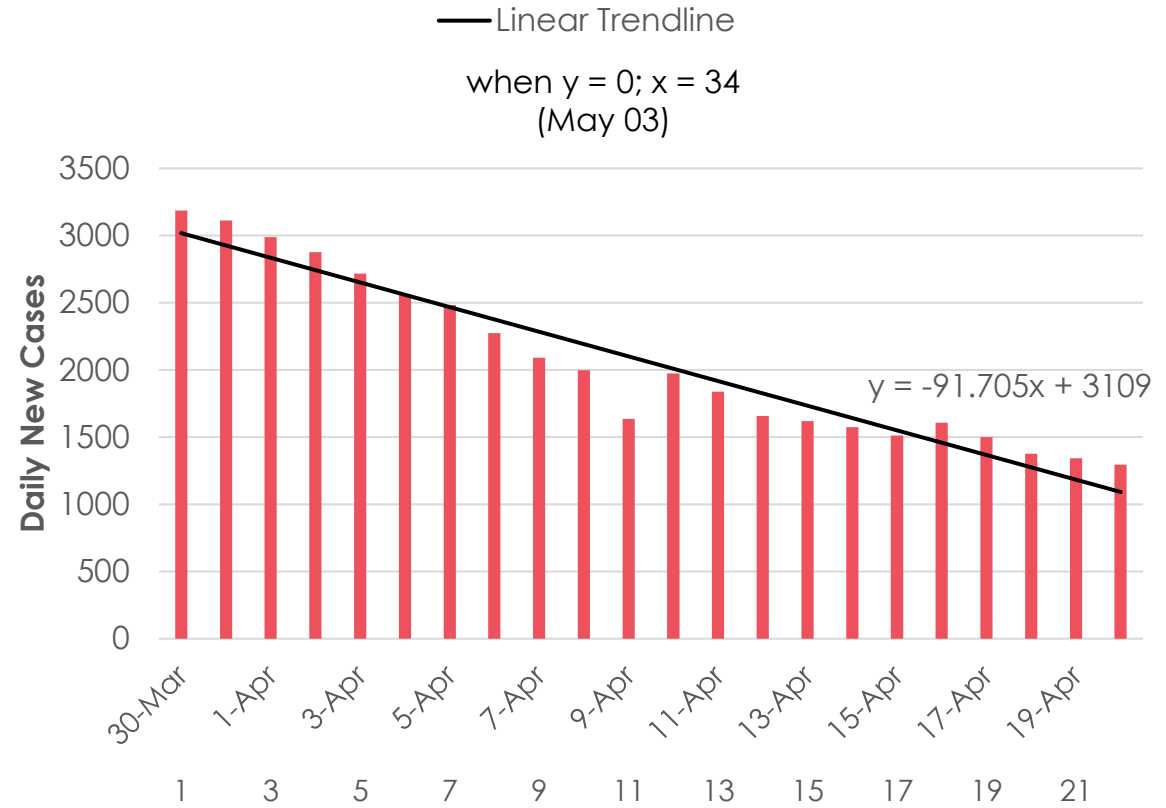
### 5-Day Moving Average Trendline

Iran 5 per. Mov. Avg. (Daily New Cases)



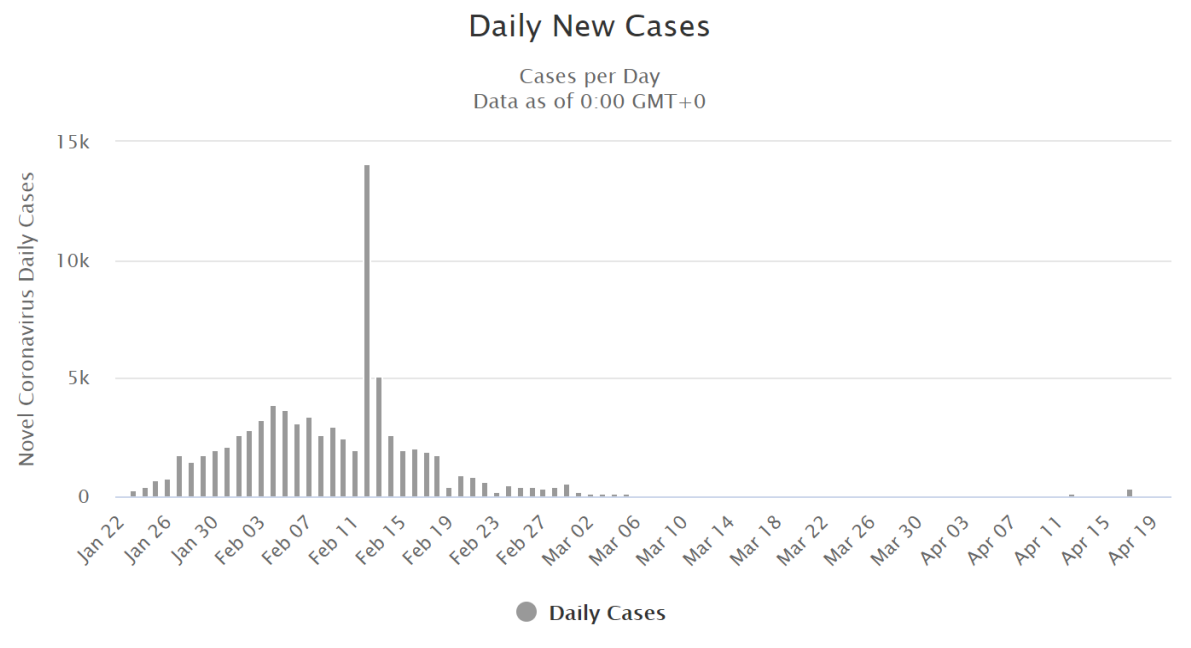
# Trendlines for Iran

### Iran Bar Chart of Daily New Cases from Peak Till Today

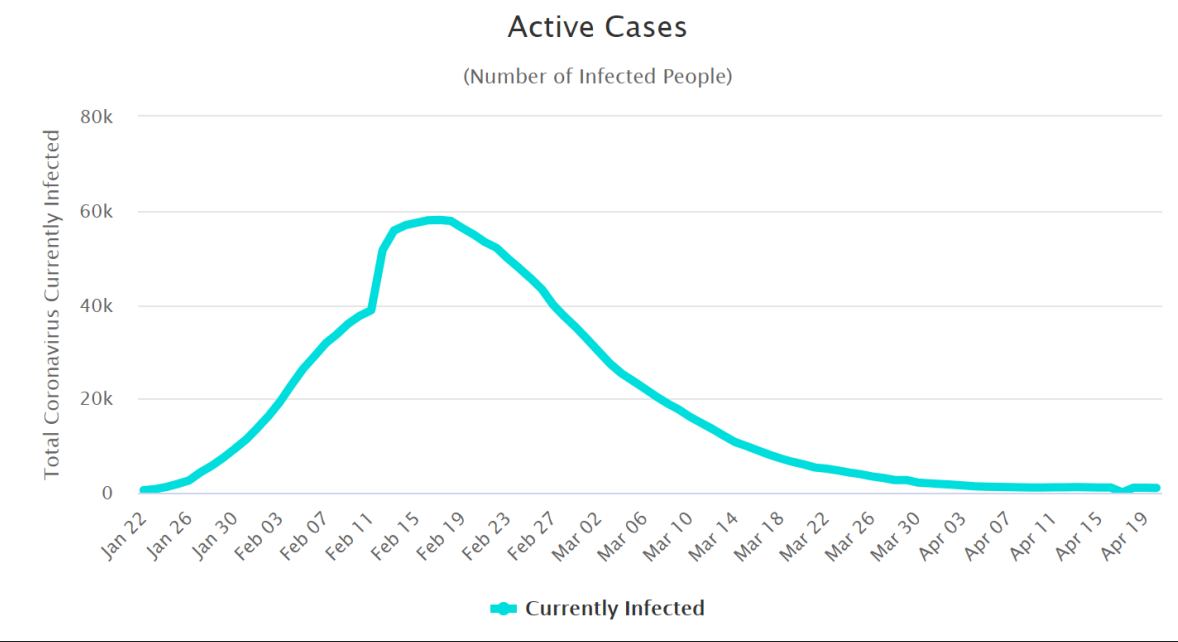


# 8. China

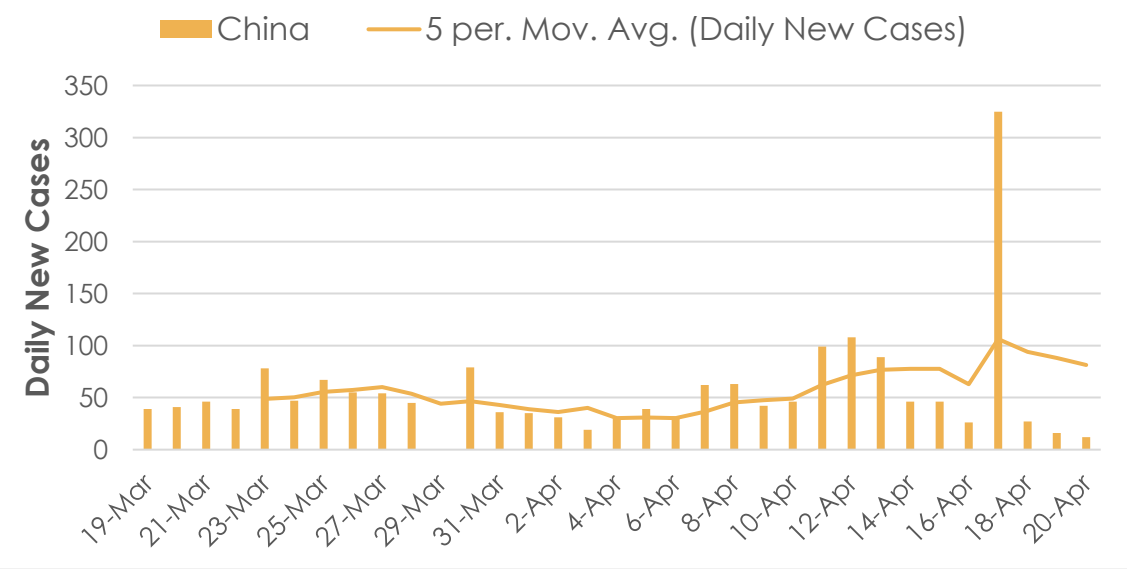
## Daily New Cases in China



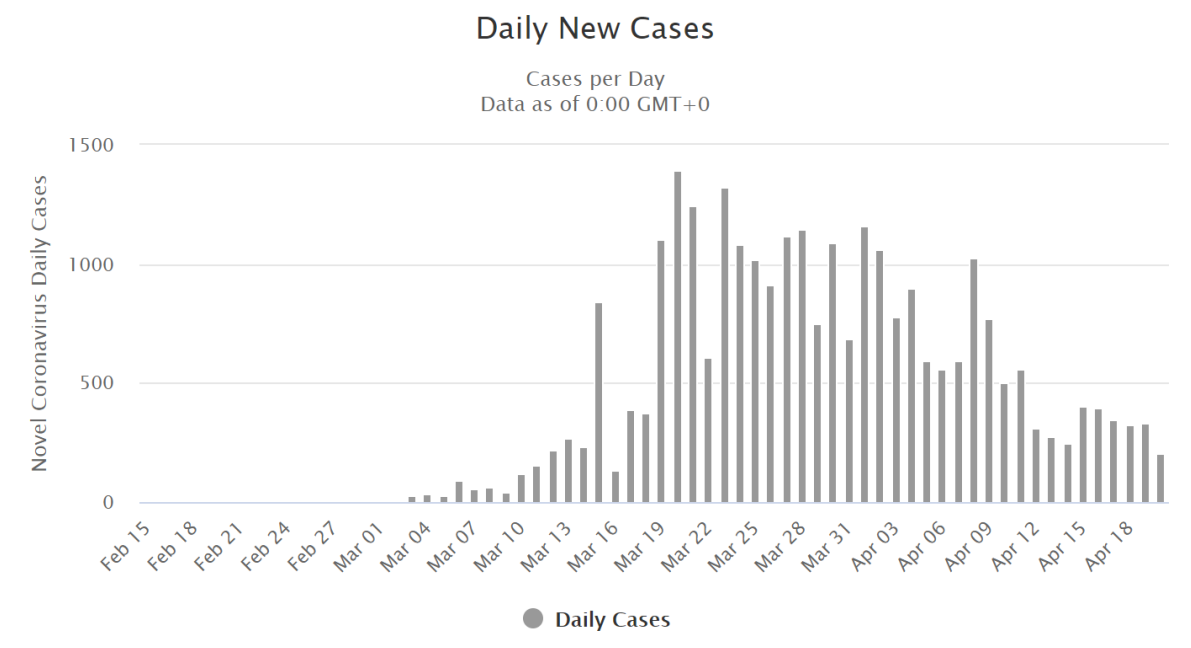
## Active Cases in China



## 5-Day Moving Average Trendline

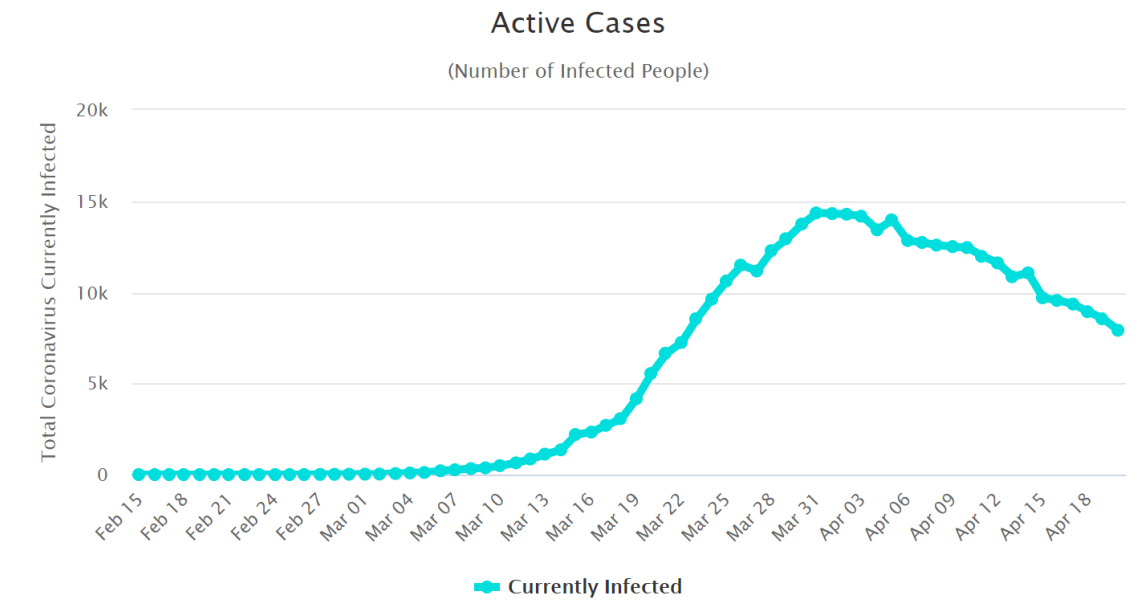


# Daily New Cases in Switzerland

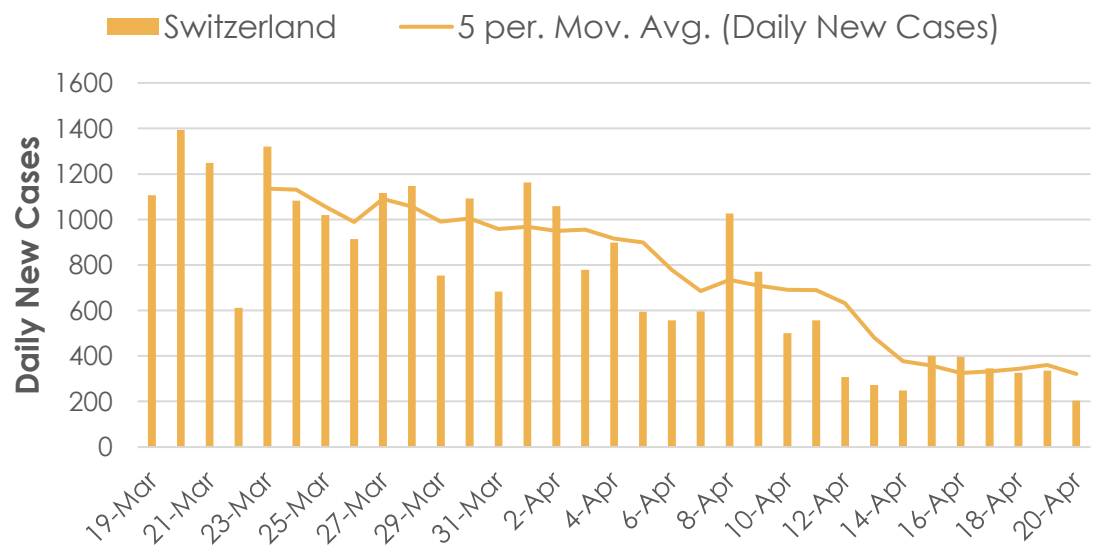


# Switzerland

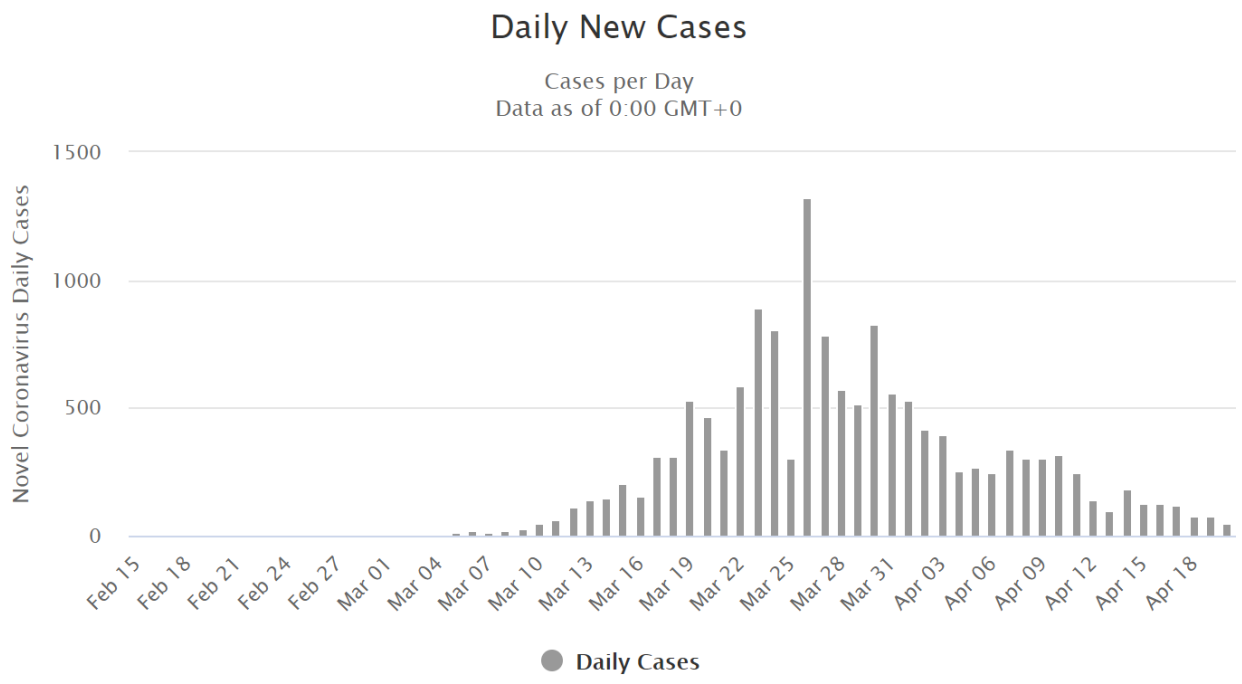
## Active Cases in Switzerland



## 5-Day Moving Average Trendline

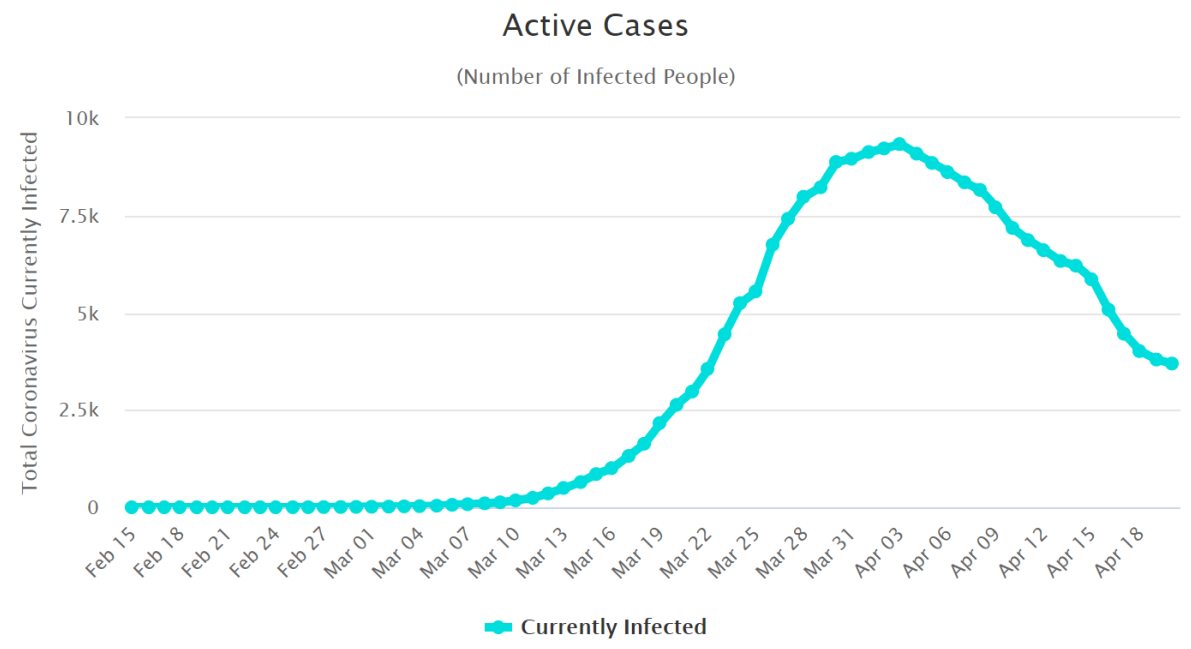


# Daily New Cases in Austria



# Austria

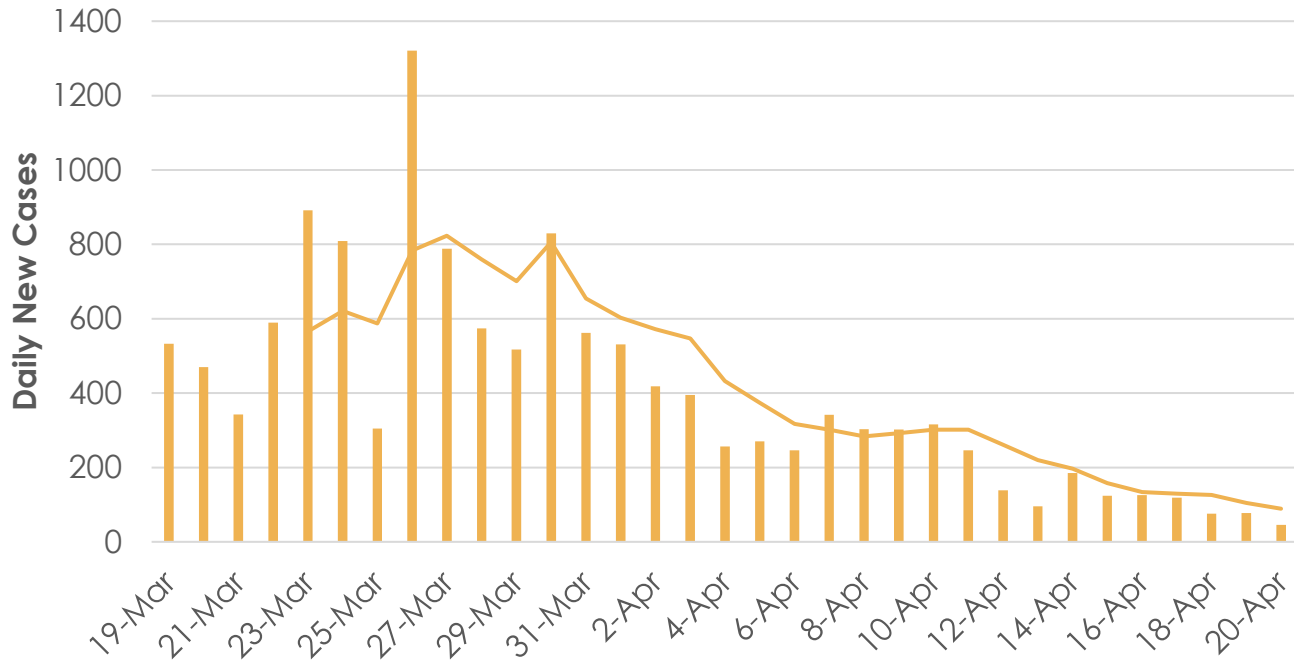
## Active Cases in Austria



# Trendlines for Austria

5-Day Moving Average Trendline

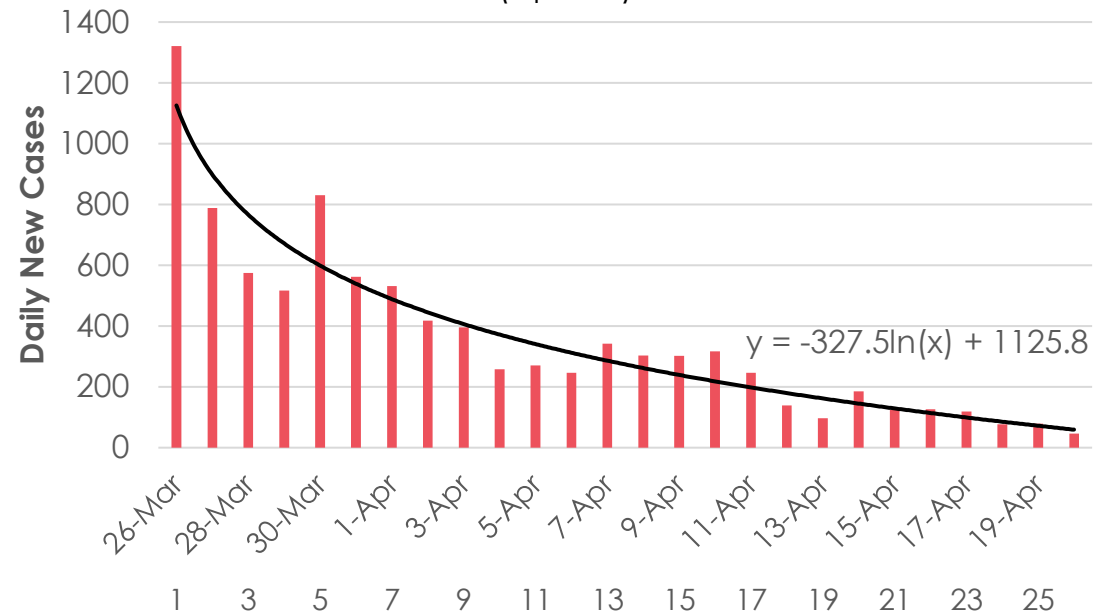
Austria 5 per. Mov. Avg. (Daily New Cases)



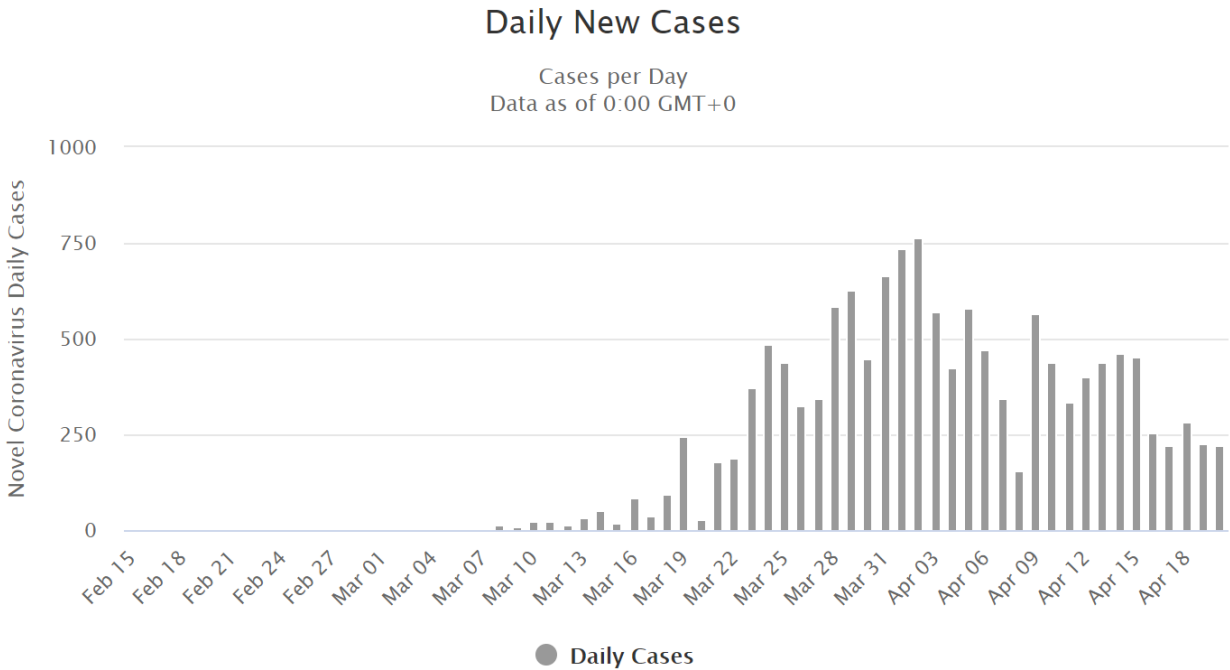
Austria Bar Chart of Daily New Cases from Peak till Today

Logarithmic Trendline

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

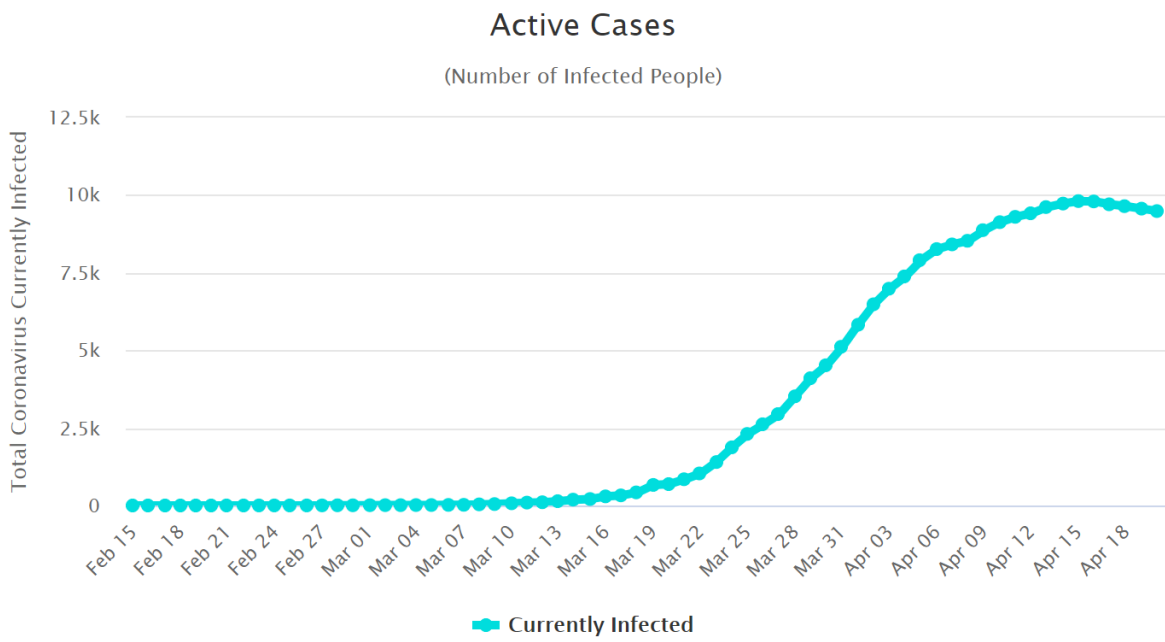


# Daily New Cases in Israel



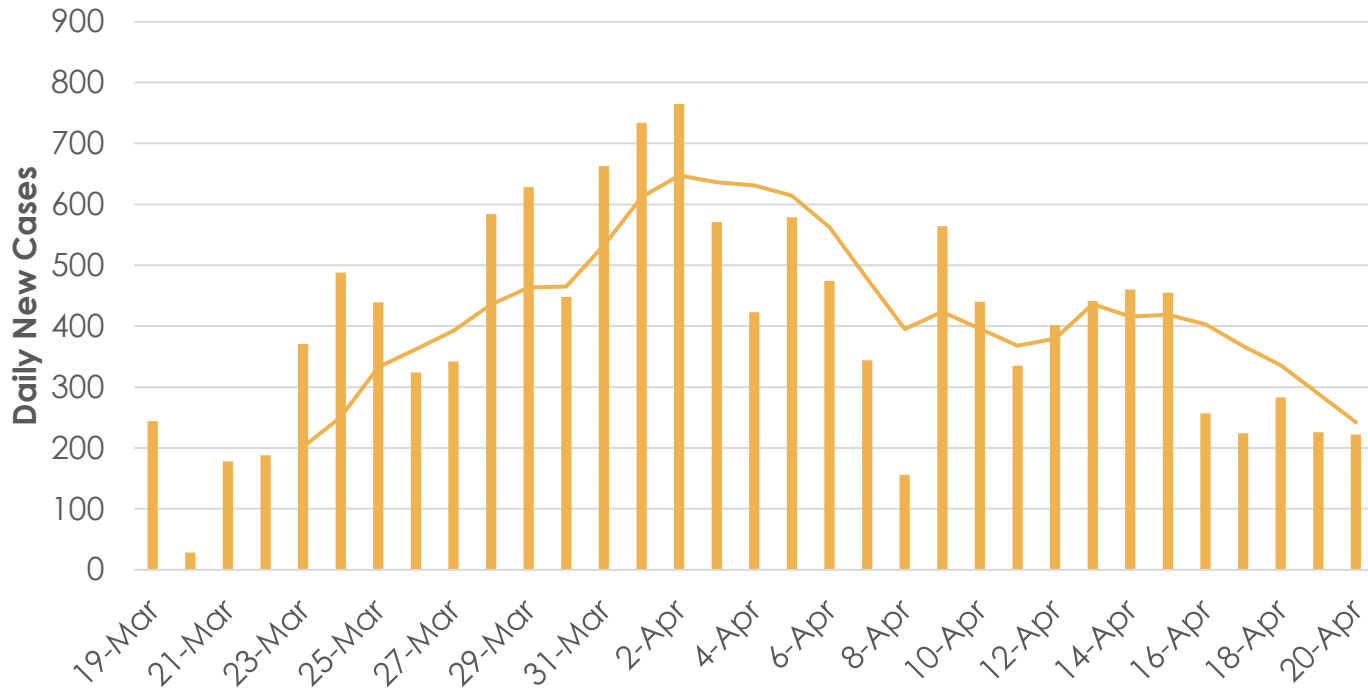
# Israel

# Active Cases in Israel



## 5-Day Moving Average Trendline

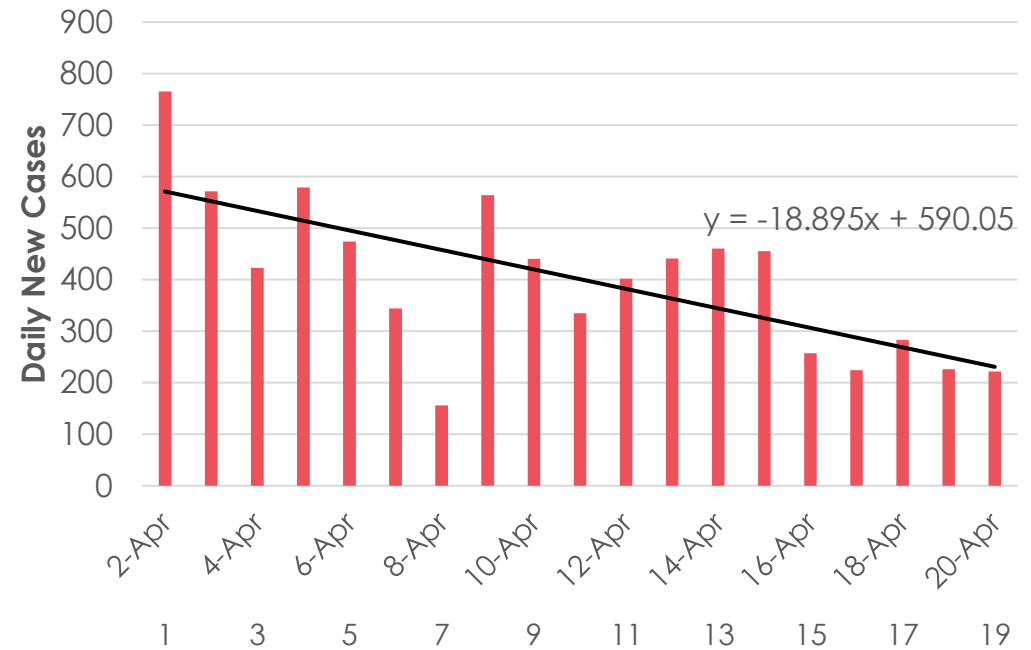
Israel 5 per. Mov. Avg. (Daily New Cases)



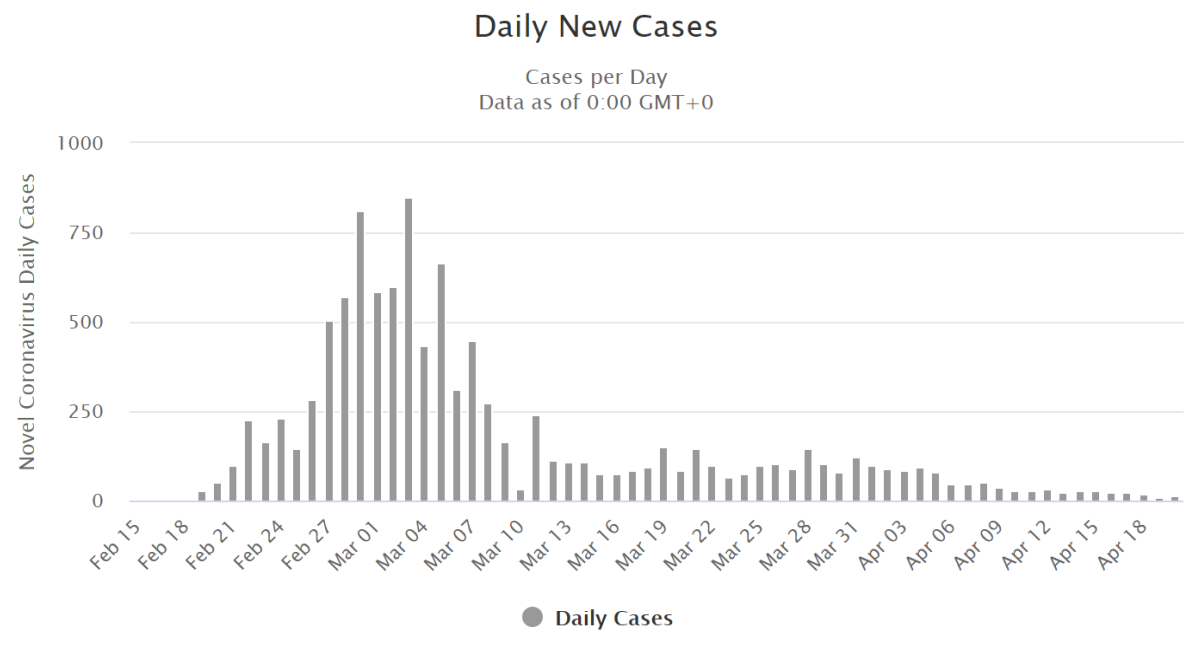
# Trendlines for Israel

### Israel Bar Chart of Daily New Cases from Peak till Today

Linear Trendline  
when  $y = 0$ ;  $x = 31$   
(May 03)

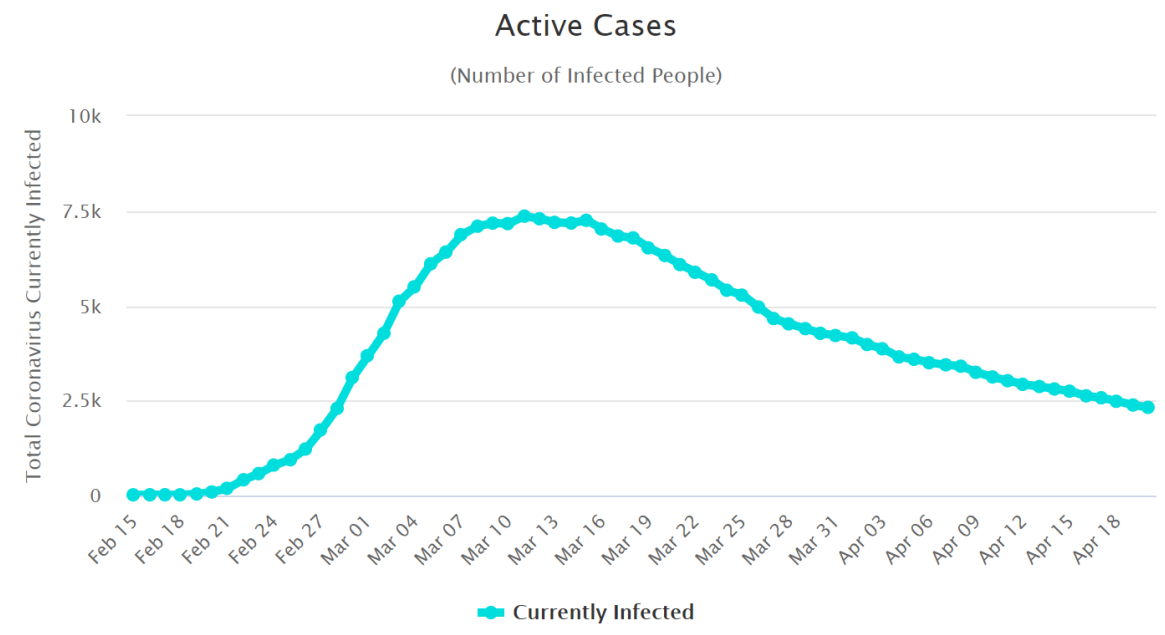


# Daily New Cases in South Korea

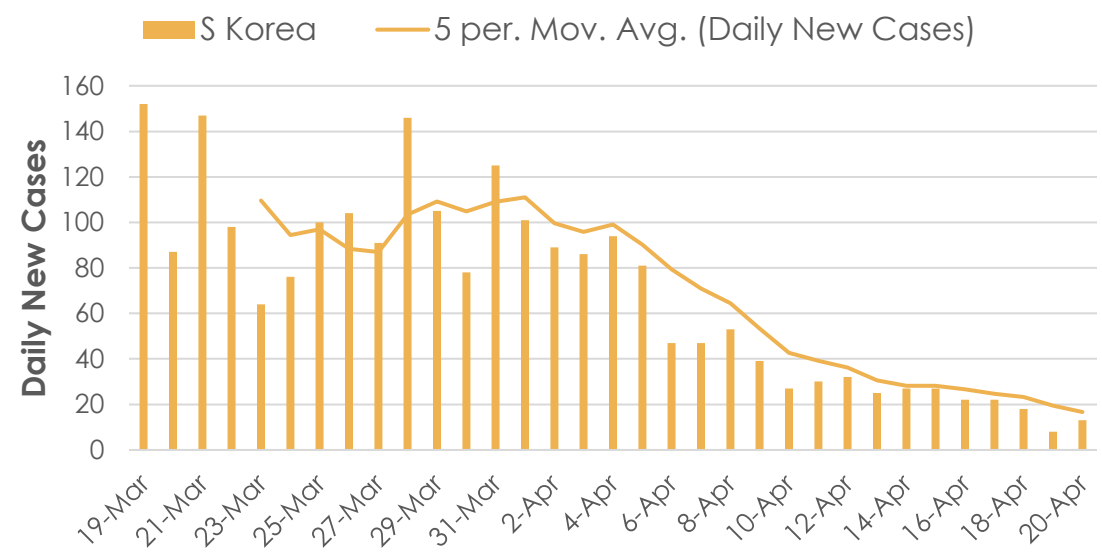


# South Korea

## Active Cases in South Korea

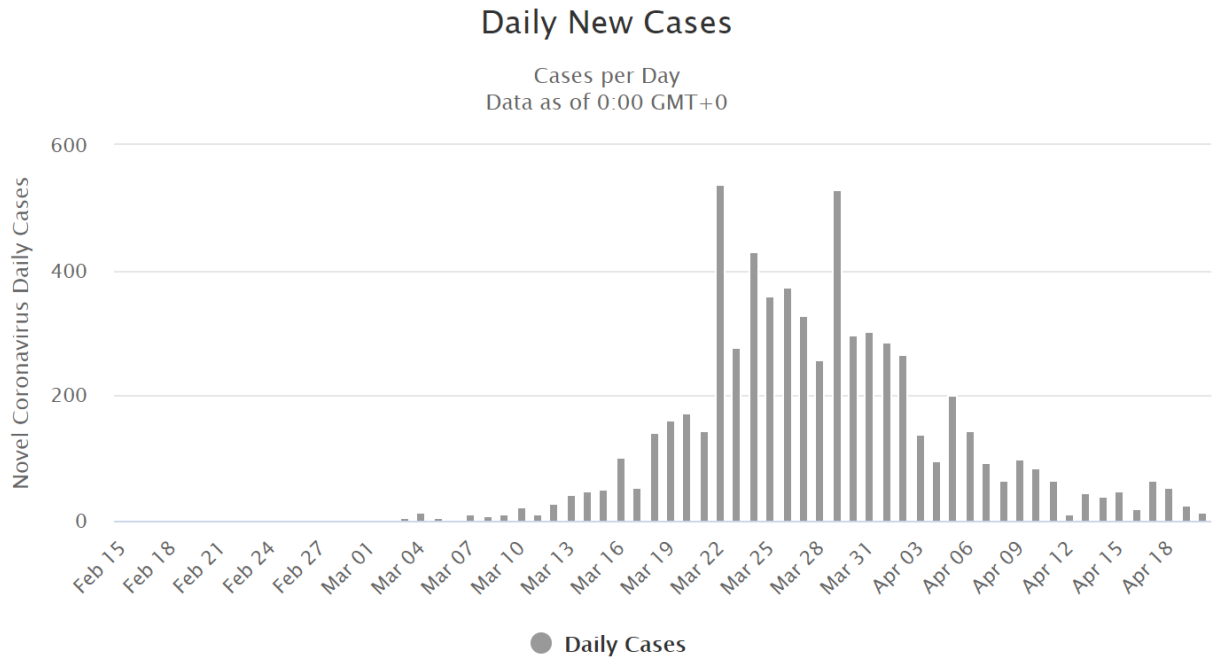


## 5-Day Moving Average Trendline



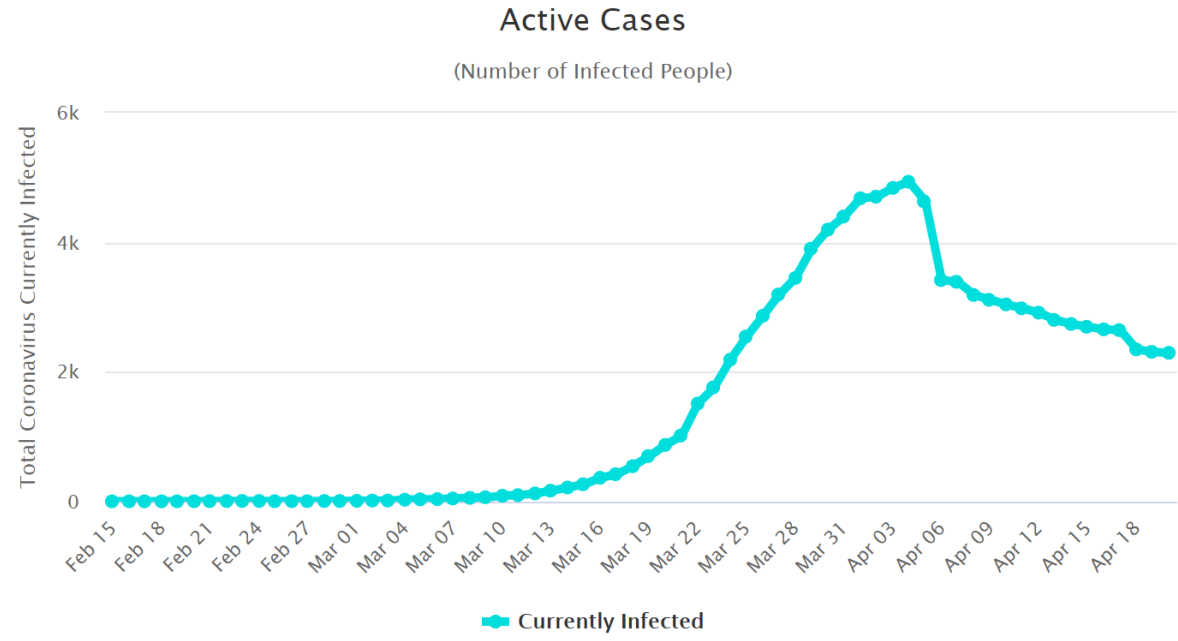


# Daily New Cases in Australia



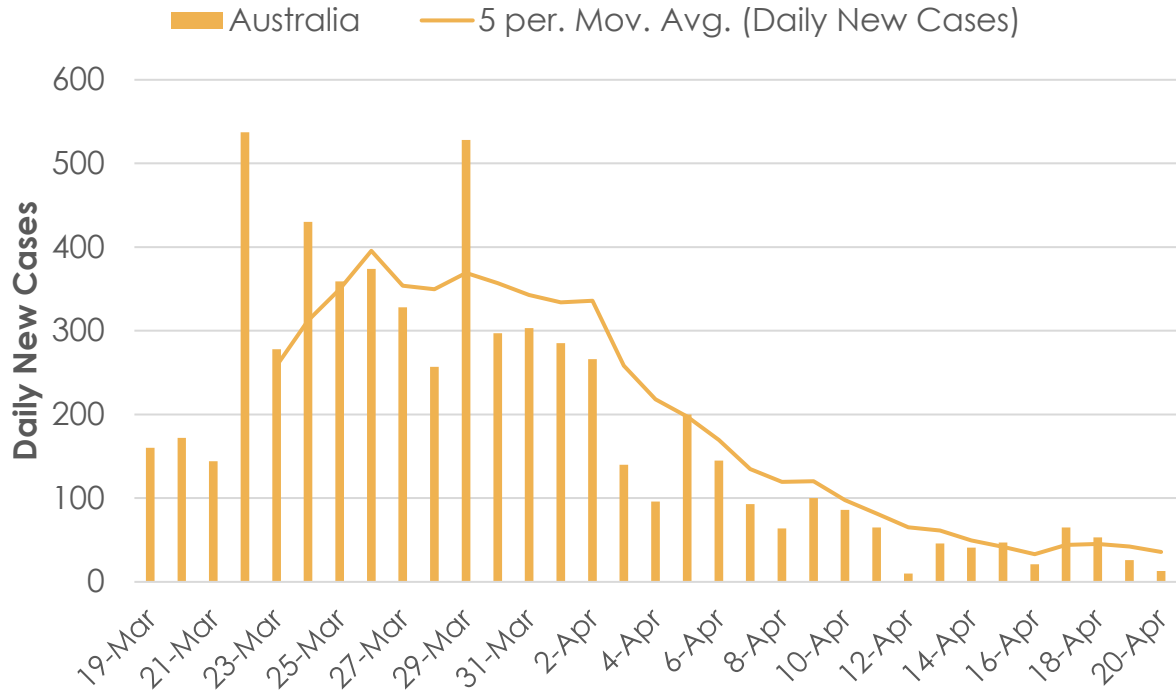
# Australia

## Active Cases in Australia

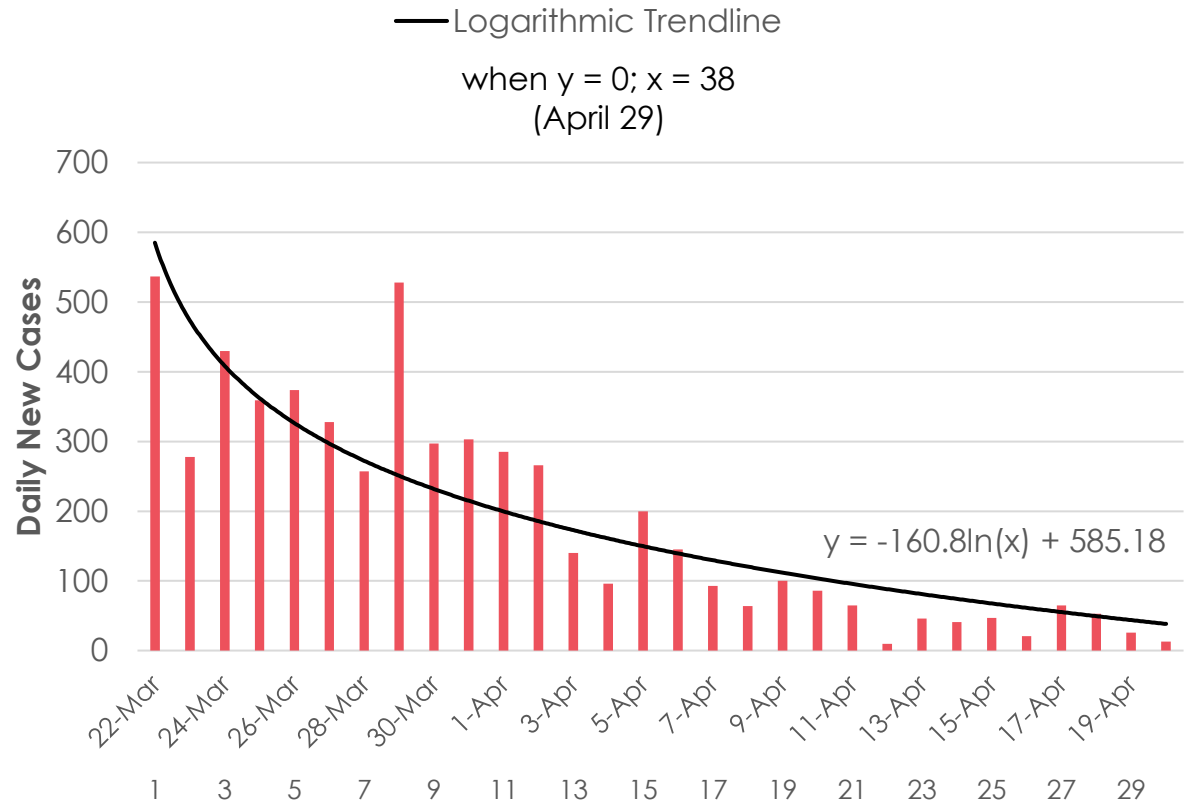


# Trendlines for Australia

### 5-Day Moving Average Trendline

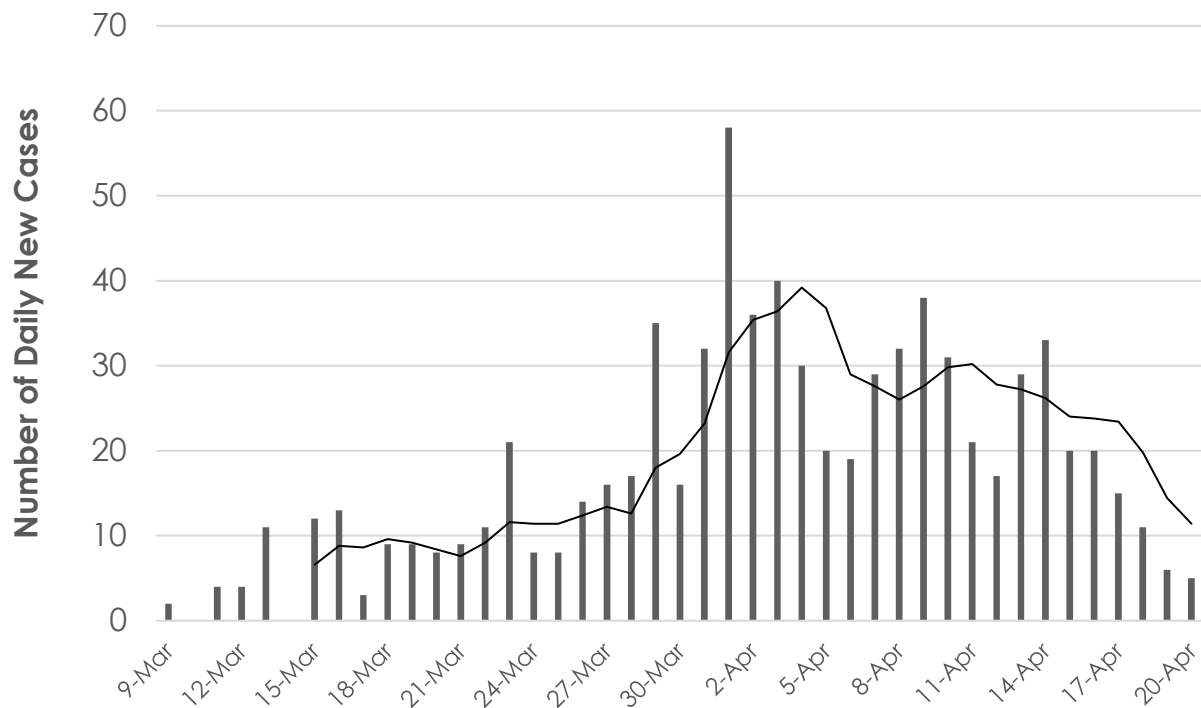


### Australia Bar Chart of Daily New Cases from Peak till Today



## Daily New Cases in Cyprus

— 5 per. Mov. Avg. (Daily New Cases)

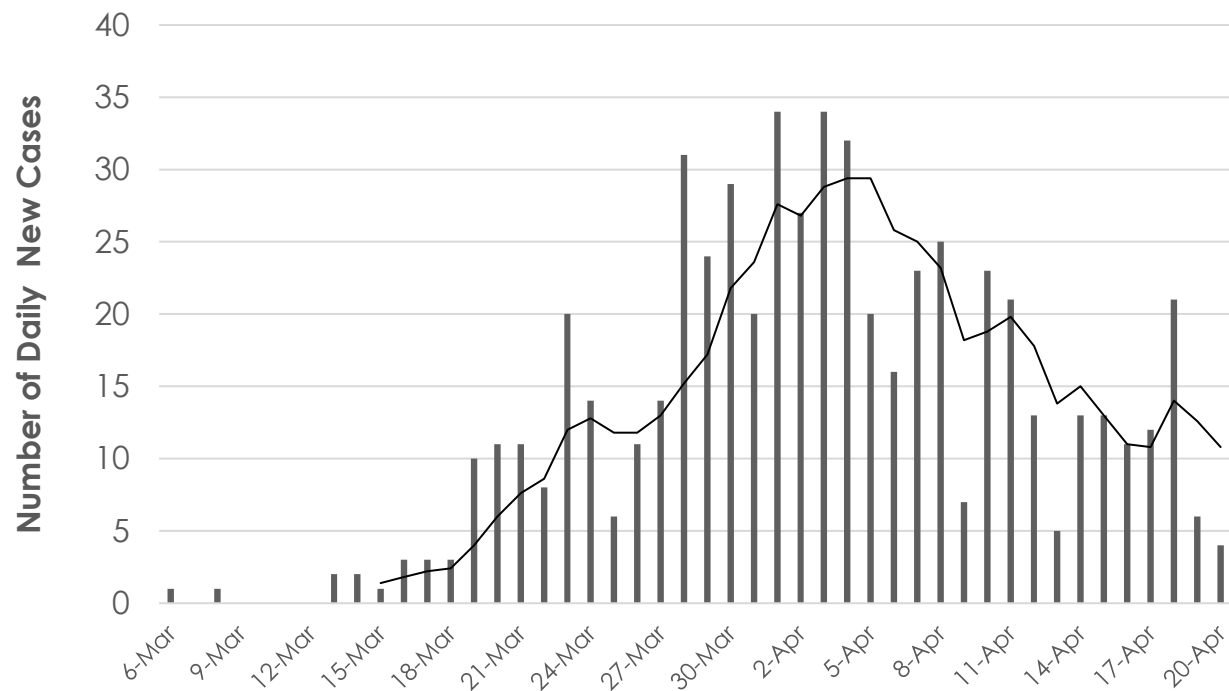


# Cyprus

Correlation,  $r$  (Between Cyprus and Hawaii) = 0.602  
 $r$  is significant at  $\alpha = 5\%$

## Daily New Cases in Hawaii

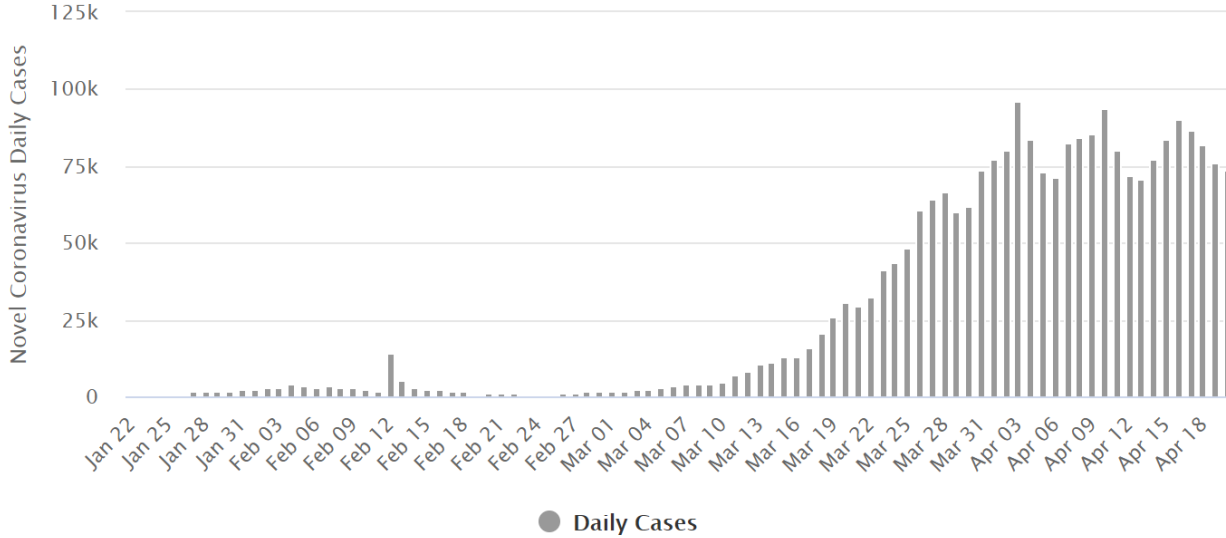
— 5 per. Mov. Avg. (Daily New Cases)



# Hawaii

## Daily New Cases

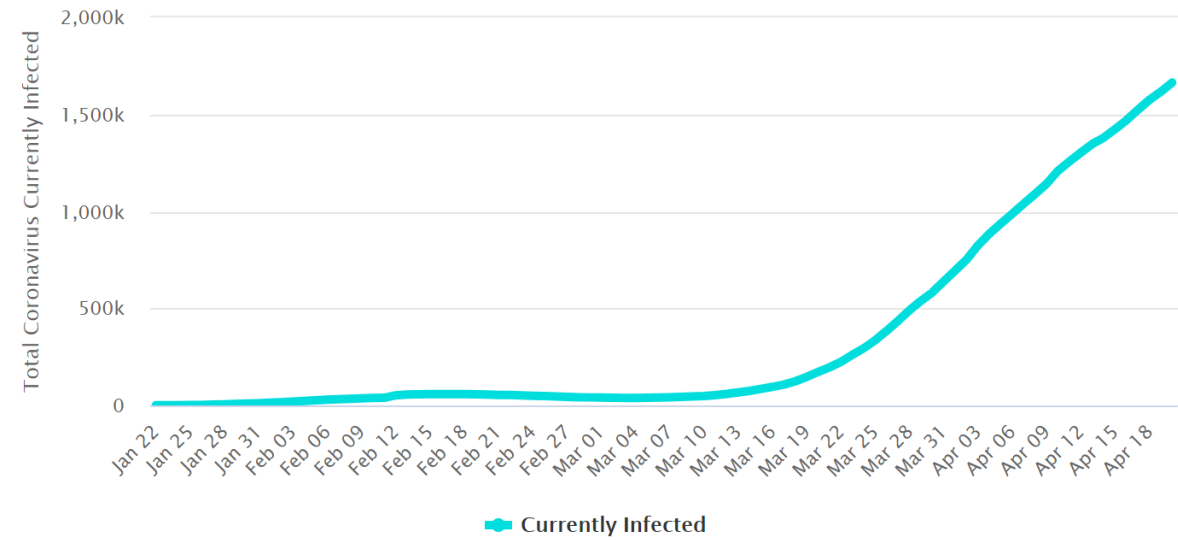
Cases per Day  
Data as of 0:00 GMT+0



# Worldwide

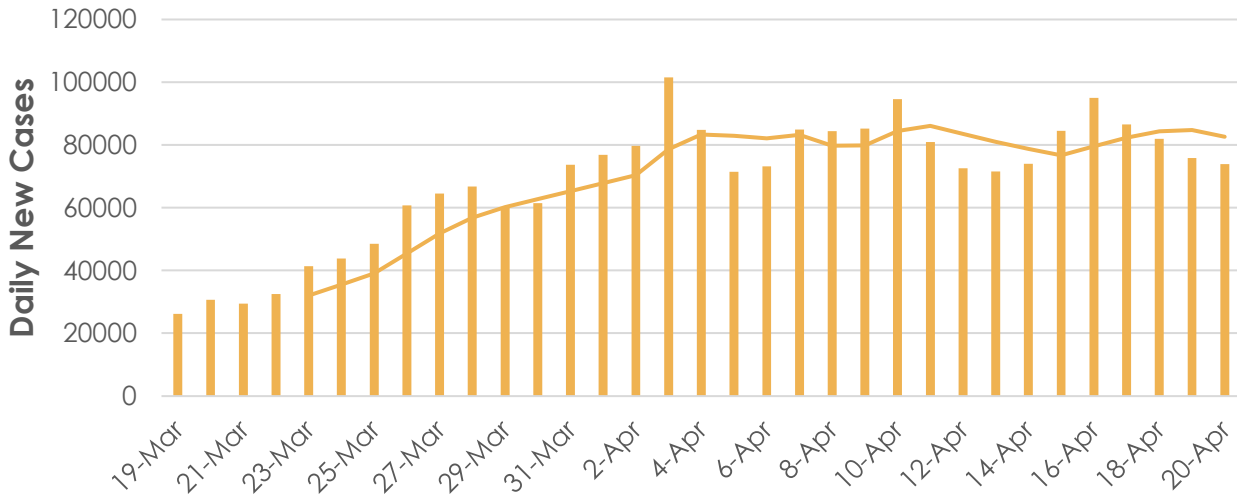
## Active Cases

(Number of Infected People)

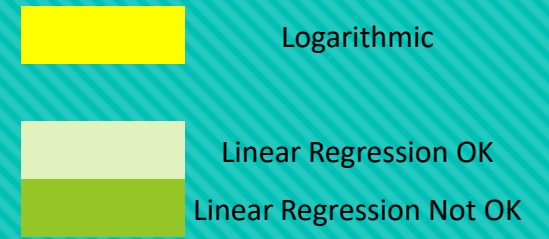


## 5-Day Moving Average Trendline

Worldwide 5 per. Mov. Avg. (Daily New Cases)



	Daily Cases	Population	Pop/10m	Cut off for logarithmic regression	Linear regression	Logarithmic regression
<b>Spain</b>	1,536	46,751,178	4.675118	519	6/15/2020	2/18/2021
<b>Italy</b>	2,256	60,479,460	6.047946	671	5/24/2020	7/22/2022
<b>Germany</b>	1,323	83,730,512	8.373051	929	5/12/2020	8/13/2020
<b>Iran</b>	1,294	83,776,094	8.377609	930	5/3/2020	9/1/2020
<b>Switzerland</b>	204	8,641,938	0.864194	96	5/3/2020	7/28/2020
<b>Austria</b>	46	8,996,119	0.899612	100	4/19/2020	4/26/2020
<b>Australia</b>	13	25,440,289	2.544029	282	4/18/2020	4/29/2020
<b>Israel</b>	222	8,628,141	0.862814	96	5/3/2020	8/16/2020



# Table I

## RATIO OF THE AVERAGE NEW CASES OF RECENT FIVE 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	4/16	4/17	4/18	4/19	4/20
<b>USA</b>	0.580	0.676	0.741	0.732	0.710	0.755	0.821	0.890	0.940	0.834	0.838	0.812	0.828	0.863	0.866	0.889	0.909	0.907	0.903	0.953	0.951	0.916	0.885	0.847	0.826	0.823	0.851	0.865	0.859	0.847
<b>Spain</b>	0.863	0.640	0.693	0.749	0.781	0.894	0.921	0.920	0.930	0.922	0.929	0.939	0.945	0.924	0.864	0.787	0.722	0.702	0.654	0.644	0.637	0.602	0.529	0.504	0.541	0.530	0.581	0.588	0.595	0.473
<b>Italy</b>	0.843	0.861	0.858	0.835	0.824	0.835	0.871	0.870	0.834	0.769	0.734	0.695	0.675	0.698	0.706	0.670	0.621	0.598	0.579	0.568	0.602	0.634	0.613	0.575	0.536	0.508	0.490	0.501	0.503	0.490
<b>France</b>	0.891	0.559	0.589	0.658	0.749	0.864	0.769	0.775	0.838	0.606	0.634	0.568	0.418	0.443	0.410	0.386	0.462	0.307	0.284	0.302	0.320	0.247	0.245	0.260	0.227	0.321	0.315	0.317	0.261	0.251
<b>Germany</b>	0.685	0.739	0.781	0.772	0.652	0.750	0.826	0.849	0.853	0.804	0.782	0.782	0.829	0.843	0.817	0.733	0.660	0.639	0.639	0.636	0.637	0.582	0.484	0.403	0.363	0.353	0.391	0.394	0.390	0.355
<b>UK</b>	0.721	0.778	0.674	0.764	0.624	0.614	0.724	0.793	0.874	0.897	0.691	0.769	0.838	0.888	0.768	0.750	0.729	0.765	0.785	0.598	0.631	0.669	0.643	0.663	0.569	0.555	0.562	0.590	0.603	0.605
<b>Iran</b>	0.801	0.806	0.727	0.668	0.736	0.731	0.804	0.878	0.909	0.954	0.958	0.945	0.934	0.894	0.855	0.810	0.761	0.716	0.658	0.626	0.598	0.571	0.547	0.543	0.515	0.500	0.490	0.475	0.460	0.447
<b>China</b>	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.004	0.005	0.005	0.006	0.006	0.004	0.008	0.007	0.006	0.006
<b>Switzerland</b>	0.679	0.816	0.812	0.758	0.710	0.783	0.758	0.711	0.721	0.688	0.695	0.682	0.686	0.658	0.645	0.558	0.492	0.527	0.509	0.495	0.495	0.454	0.346	0.271	0.256	0.233	0.239	0.246	0.259	0.231
<b>Austria</b>	0.763	0.634	0.696	0.659	0.593	0.623	0.575	0.531	0.610	0.495	0.456	0.433	0.414	0.327	0.283	0.240	0.229	0.215	0.221	0.228	0.228	0.198	0.166	0.149	0.120	0.101	0.098	0.095	0.079	0.067
<b>Israel</b>	0.602	0.544	0.514	0.682	0.742	0.805	0.746	0.738	0.741	0.804	0.833	0.847	0.832	0.825	0.803	0.735	0.625	0.517	0.553	0.517	0.481	0.496	0.570	0.543	0.547	0.527	0.480	0.439	0.378	0.317
<b>S Korea</b>	0.136	0.129	0.111	0.114	0.104	0.102	0.122	0.128	0.123	0.128	0.130	0.117	0.113	0.116	0.106	0.093	0.083	0.076	0.063	0.050	0.046	0.043	0.036	0.033	0.033	0.031	0.029	0.027	0.023	0.020
<b>Australia</b>	0.430	0.481	0.581	0.651	0.737	0.659	0.651	0.688	0.664	0.638	0.622	0.625	0.481	0.406	0.368	0.315	0.251	0.223	0.224	0.182	0.152	0.121	0.114	0.092	0.078	0.061	0.082	0.085	0.079	0.066
<b>Cyprus</b>	0.708	0.552	0.543	0.543	0.590	0.638	0.600	0.514	0.560	0.663	0.545	0.610	0.628	0.676	0.634	0.500	0.476	0.448	0.476	0.514	0.521	0.479	0.469	0.452	0.414	0.410	0.403	0.341	0.248	0.197
<b>Hawaii</b>	0.782	0.600	0.640	0.590	0.590	0.650	0.490	0.555	0.703	0.761	0.812	0.788	0.847	0.865	0.865	0.759	0.735	0.682	0.535	0.553	0.582	0.524	0.406	0.441	0.382	0.324	0.318	0.412	0.371	0.318
<b>Worldwide</b>	0.858	0.774	0.812	0.807	0.746	0.803	0.852	0.901	0.940	0.887	0.882	0.883	0.774	0.820	0.816	0.809	0.819	0.785	0.786	0.832	0.847	0.823	0.797	0.775	0.755	0.783	0.811	0.831	0.835	0.814