COVID-19 Cases

As of Tuesday 5/05/2020, 5:00PM HST

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

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

Statistics regarding daily new cases are also included for Hawaii.

1. USA
2. Spain

5-Day Moving Average Trendline

Active Cases in Spain

Active Cases
(Number of Infected People)
3. Italy

**5-Day Moving Average Trendline**

- ITALY
- 5 per. Mov. Avg. (Daily New Cases)

**Active Cases in Italy**

- Active Cases
- (Number of Infected People)

- Total Coronavirus Currently Infected
  - 0
  - 25k
  - 50k
  - 75k
  - 100k
  - 125k

- Currently Infected

- Dates: Feb 15 to Mar 03
4. UK
5. France
6. Germany

**5-Day Moving Average Trendline**

- **GERMANY**
- 5 per. Mov. Avg. (Daily New Cases)

**Active Cases in Germany**

(Number of Infected People)

- **Currently Infected**
- Total Coronavirus Currently Infected

Data categories include:

- [Mar 01 to May 03]
- [Feb 15 to May 05]
Switzerland
Israel

5-Day Moving Average Trendline

Israel Bar Chart of Daily New Cases from Peak till Today

Active Cases in Israel

Active Cases
(Number of Infected People)

Currently Infected

Israel Bar Chart of Daily New Cases from Peak till Today

Linear Trendline
when $y = 0; x = 37$
(May 09)

$y = -15.366x + 568.82$
Austria
Cyprus

Cyprus Bar Chart of Daily New Cases from Peak Till Today

- Logarithmic Trendline
  - when $y = 0; x = 50$
  - (May 21)

y = $-13.7\ln(x) + 53.655$
Correlation, $r$ (Between Cyprus and Hawaii) = 0.736

$r$ is significant at $a = 5\%$
Worldwide

5-Day Moving Average Trendline

Worldwide

Active Cases

(Number of Infected People)

Total Coronavirus Currently infected

Currently Infected
<table>
<thead>
<tr>
<th>Country</th>
<th>Average of Daily New Cases from Last Five Days</th>
<th>Population</th>
<th>Pop./10m</th>
<th>Cut-off of COVID daily cases such that COVID death rate = present Influenza death rate</th>
<th>Linear Regression</th>
<th>Logarithmic Regression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spain</td>
<td>2,224</td>
<td>46,751,178</td>
<td>4.675118</td>
<td>519</td>
<td>7/01/2020</td>
<td>10/23/2020</td>
</tr>
<tr>
<td>Italy</td>
<td>1,510</td>
<td>60,479,460</td>
<td>6.047946</td>
<td>671</td>
<td>5/25/2020</td>
<td>11/19/2020</td>
</tr>
<tr>
<td>Germany</td>
<td>800</td>
<td>83,730,512</td>
<td>8.373051</td>
<td>929</td>
<td>5/09/2020</td>
<td>6/12/2020</td>
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<tr>
<td>Switzerland</td>
<td>85</td>
<td>8,641,938</td>
<td>0.864194</td>
<td>96</td>
<td>5/05/2020</td>
<td>6/1/2020</td>
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<tr>
<td>Israel</td>
<td>69</td>
<td>8,628,141</td>
<td>0.862814</td>
<td>96</td>
<td>5/09/2020</td>
<td>6/17/2020</td>
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<td>Cyprus</td>
<td>6</td>
<td>1,205,766</td>
<td>0.120576</td>
<td>13</td>
<td>5/03/2020</td>
<td>5/21/2020</td>
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<td>France</td>
<td>675</td>
<td>65,247,490</td>
<td>6.524749</td>
<td>724</td>
<td>5/04/2020</td>
<td>5/18/2020</td>
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</tbody>
</table>