COVID-19 Cases
As of Friday 4/10/2020, 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.
2. Spain

Daily New Cases in Spain

Active Cases in Spain

(Number of Infected People)
Trendlines for Spain

y = -222.28x + 8686.7

Linear Trendline
when y = 0; x = 39
(May 04)
3. Italy
Trendlines for Italy

y = -116.11x + 6065.6

Italy Bar Chart of Daily New Cases from Peak till Today

Linear Trendline
when y = 0; x = 52
(May 12)

3-Day Moving Average Trendline

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

Daily New Cases in France

Active Cases in France

3-Day Moving Average Trendline

- France
- 3 per. Mov. Avg. (Daily New Cases)
Daily New Cases in Germany

Active Cases in Germany

5. Germany
**Trendlines for Germany**

**Linear Trendline**

when $y = 0$: $x = 45$
(May 11)

**3-Day Moving Average Trendline**

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

Daily New Cases in China

Chart showing daily new cases in China with a moving average trendline.

Active Cases in China

Chart showing active cases in China with a trend line indicating the number of infected people.
Daily New Cases in the United Kingdom

3-Day Moving Average Trendline

Active Cases in the United Kingdom

7. UK
8. Iran
Trendlines for Iran

3-Day Moving Average Trendline

Daily New Cases

Iran

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

Iran Bar Chart of Daily New Cases from Peak Till Today

Linear Trendline

when $y = 0; x = 25$

(April 24)
9. Switzerland

### Daily New Cases in Switzerland

**Daily New Cases**  
Cases per Day  
Data as of 0:00 GMT = 0

![Graph showing daily new cases in Switzerland](image)

### Active Cases in Switzerland

**Active Cases**  
(Number of Infected People)

![Graph showing active cases in Switzerland](image)
Trendlines for Switzerland

**Linear Trendline**

\[ y = -25.548x + 1217.8 \]

when \( y = 0; \ x = 48 \) (May 7)

**3-Day Moving Average Trendline**

Switzerland Bar Chart of Daily New Cases from Peak till Today

Switzerland 3 per. Mov. Avg (Daily New Cases)
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
Linear Trendline
when $y = 0; x = 19$
(April 14)
Daily New Cases in South Korea

Active Cases in South Korea

3-Day Moving Average Trendline

S Korea 3 per. Mov. Avg. (Daily New Cases)
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 $y = 0; x = 19$
(April 21)

$y = -34.833x + 653.72$
Trendlines for Australia

3-Day Moving Average Trendline

- Australia
- 3 per. Mov. Avg. (Daily New Cases)

Australia Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

when y = 0; x = 23 (April 14)

y = -20.595x + 474.55
Daily New Cases in Cyprus

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

Number of Daily New Cases

Daily New Cases in Hawaii

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

Number of Daily New Cases

Correlation, $r$ (Between Cyprus and Hawaii) = 0.653

$r$ is significant at $a = 5\%$
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Table 1.b

AVERAGE GROWTH OF LAST FIVE DAYS

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COVID-19
‘MODIFIED’ Control Chart Analysis
'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 (from 4/8/20 to 4/10/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Italy.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (from 4/6/20 to 4/10/20) 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 (from 3/21/20 to 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 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 (from 4/8/20 to 4/10/20) are below the control line, which suggests a good ‘out-of-control’ pattern for COVID-19 cases in Spain. Also, the regressed trend line from 3/26/20 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 five points (from 4/6/20 to 4/10/20) 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.
  - The nine consecutive points (from 3/26/20 to 4/3/20) are all on one side (above) of the centerline. This was not a good ‘out-of-control’ pattern.
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.
  - Two points (4/9/20 - 4/10/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. Also, a linear trend line with a downward slope can be observed from 3/27/20.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/6/20 - 4/7/20 and 4/9/20 - 4/10/20) 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.
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.
  - Two points (4/9/20 and 4/10/20) 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.
  - Four points (4/6/20 – 4/7/20 and 4/9/20 – 4/10/20) 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.
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.
  o Two points (4/8/20 and 4/10/20) are below the control line, which suggests an ‘out-of-control’ pattern for COVID-19 cases in Israel. This is a good ‘out-of-control’ pattern. Also, a linear trend line with a downward slope can be observed from 4/2/20.
• Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  o Four points (4/6/20 – 4/8/20 and 4/10/20) 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.
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 (from 4/8/20 to 4/10/20) are below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Austria. This is a good 'out-of-control' pattern.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (from 4/6/20 to 4/10/20) 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. Also, a linear trend line with a downward slope can be observed from 3/26/20.

- Nine successive points are on one side of the centerline.
  - The last nine points (from 4/2/20 to 4/10/20) 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.
'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - Two points (4/8/20 and 4/10/20) are below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Israel. This is a good 'out-of-control' pattern. Also, a linear trend line with a downward slope can be observed from 4/2/20.

- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/6/20 – 4/8/29 and 4/10/20) 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.