COVID-19 CASES
AS OF WEDNESDAY 4/8/2020, 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, Australia, and Cyprus.

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

Statistics regarding daily new cases are also included for Hawaii.
1. USA

Daily New Cases in the United States

Active Cases in the United States
2. Spain
Trendlines for Spain

Spain Bar Chart of Daily New Cases from Peak till Today

- Linear Trendline
  - $y = 0; x = 41$
  - (May 06)

$y = -207.76x + 8608.5$
3. Italy
Trendlines for Italy

- Linear Trendline: $y = -130.44x + 6167.6$
- Day Moving Average Trendline

Italy Bar Chart of Daily New Cases from Peak till Today

Linear Trendline when $y = 0; x = 47$ (May 07)
4. Germany

Daily New Cases in Germany

Active Cases in Germany
Trendlines for Germany

Germany Bar Chart of Daily New Cases from Peak till Today

Linear Trendline
when $y = 0; x = 42$
(May 08)

$y = -150.97x + 6392$
5. France
6. China
7. Iran
Trendlines for Iran

3-Day Moving Average Trendline

Iran Bar Chart of Daily New Cases from Peak Till Today

Linear Trendline when $y = 0; x = 25$
(April 24)

$y = -137.87x + 3386$
8. UK

Daily New Cases in the United Kingdom

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

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)
9. Switzerland

Daily New Cases in Switzerland

Active Cases in Switzerland

Active Cases
(Number of Infected People)
Trendlines for Switzerland

\[ y = -24.269x + 1207.7 \]

Switzerland Bar Chart of Daily New Cases from Peak till Today

Linear Trendline when \( y = 0 \); \( x = 50 \) (May 09)

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 $y = 0$; $x = 17$
  - (April 12)

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

Linear Trendline

$y = -57.802x + 958.8$

Daily New Cases
Trendlines for Australia

3-Day Moving Average Trendline

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

y = -21.43x + 480.25

Linear Trendline
when y = 0; x = 22
(April 13)

Australia Bar Chart of Daily New Cases from Peak till Today

y = -21.43x + 480.25
Correlation, $r$ (Between Cyprus and Hawaii) = 0.786
$r$ is significant at $\alpha = 5\%$
Daily New Cases
Cases per Day
Data as of 0.00 GMT+0

3-Day Moving Average Trendline
Worldwide 3 per. Mov. Avg. (Daily New Cases)

Active Cases
(Number of Infected People)

Currently Infected
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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 4/6/20 to 4/8/20) 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 4/4/20 to 4/8/20) 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 last nine points (from 3/31/20 to 4/8/20) are all on one side (below the centerline). This good ‘out-of-control’ pattern suggests that the daily COVID-19 cases in Italy are stabilizing in a positive direction.
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 4/6/20 to 4/8/20) 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 4/4/20 to 4/8/20) 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.
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.
  - Three points (from 4/5/20 to 4/7/20) 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 (from 4/4/20 to 4/7/20) 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.
  - Three points (from 4/5/20 to 4/7/20) 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 (from 4/4/20 to 4/7/20) 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.
  - The last three points (from 4/6/20 to 4/8/20) are below the control line, which suggests an ‘out-of-control’ pattern for COVID-19 cases in Australia. This is a good pattern. Also, 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 five points (from 4/4/20 to 4/8/20) 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. Also, a linear trend line with a downward slope can be observed from 3/22/20.
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 4/6/20 to 4/8/20) 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 4/4/20 to 4/8/20) 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.