COVID-19 CASES
AS OF TUESDAY 4/7/2020, 6:00PM HST

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

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

Statistics regarding daily new cases are also included for Cyprus and Hawaii.

Source: https://www.financialmirror.com/category/cyprus/
Daily New Cases in the United States

Active Cases in the United States

3-Day Moving Average Trendline
2. Spain

**Daily New Cases in Spain**

Daily New Cases

Cases per Day

Data as of 0.00 GMT+0

**Active Cases in Spain**

Active Cases

(Number of Infected People)

Currently Infected
Trendlines for Spain

\[ y = -229.99x + 8719.7 \]

When \( y = 0; \ x = 38 \) (May 3)
3. Italy
Trendlines for Italy

Linear Trendline
When $y = 0; x = 46$
(May 6)

$y = -133.32x + 6186.8$
4. France

**Daily New Cases in France**

![Graph of Daily New Cases in France]

**Active Cases in France**

![Graph of Active Cases in France]

**3-Day Moving Average Trendline**

- France
- 3 per. Mov. Avg. (Daily New Cases)
5. Germany
Trendlines for Germany

y = -205.68x + 6647.3

when y = 0; x = 32
(April 28)
6. China

Daily New Cases in China

Active Cases in 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)

$y = -137.02x + 3382.9$
9. Switzerland

Daily New Cases in Switzerland

Active Cases in Switzerland
Trendlines for Switzerland

Linear Trendline

\[ y = -29.614x + 1245.1 \]

when \( y = 0; x = 42 \) (May 1)

3-Day Moving Average Trendline

Switzerland Bar Chart of Daily New Cases from Peak till Today

Switzerland

Day Moving Average Trendline

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

Active Cases in Austria
Trendlines for Austria

Austria Bar Chart of Daily New Cases from Peak till Today

Linear Trendline

when \( y = 0; x = 16 \)
(April 11)

\[ y = -63.703x + 988.31 \]
Daily New Cases in Australia

Active Cases in Australia

Australia
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)
Correlation, $r$ (Between Cyprus and Hawaii) = 0.782
$r$ is significant at $a = 5\%$
Worldwide

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

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

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

Currently Infected
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Table 1.b

AVERAGE GROWTH OF LAST FIVE DAYS

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<tr>
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<tr>
<td>Hawaii</td>
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<td>0.832</td>
<td>0.896</td>
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COVID-19 CONTROL CHART ANALYSIS
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 4/5/20 to 4/7/20) 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 4/3/20 to 4/7/20) 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. The linear trend line has a remarkable downward slope.

- Nine successive points are on one side of the centerline.
  - The last nine points (from 3/30/20 to 4/7/20) are all on one side (below) of the centerline. This good ‘out-of-control’ pattern suggests that the daily COVID-19 cases in Italy are stabilizing in a positive direction.
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 4/5/20 to 4/7/20) 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 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 Spain. A good ‘out-of-control’ sign. The linear trend line has a downward slope.

- There are six consecutive points, increasing or decreasing.
  - Six consecutive points (from 4/1/20 to 4/6/20) are decreasing, which indicates that the daily cases are trending in a downward direction. A good ‘out-of-control’ sign.
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 4/5/20 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.
  - The last 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.
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 4/5/20 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.
  - The last five points (from 4/3/20 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.
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 4/5/20 to 4/7/20) 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 4/3/20 to 4/7/20) 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.
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 4/5/20 to 4/7/20) 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 4/3/20 to 4/7/20) 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.