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```
#####
#### TS-CONFIRMED Cases -- Data dated: 2020-12-21 :: 2020-12-22 13:02:33
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 84
Unique number of distinct geographical locations combined: 271
```

Worldwide ts-confirmed Totals: 77364641

| | Country.Region | Province.State | Totals | GlobalPerc | LastDayChange | t-2 | t-3 | t-7 | t-14 | t-30 |
|----|----------------|----------------|----------|------------|---------------|--------|--------|--------|--------|--------|
| 1 | US | | 18035209 | 23.31 | 190519 | 189099 | 196295 | 198766 | 219934 | 146462 |
| 2 | India | | 10075116 | 13.02 | 19556 | 24337 | 26624 | 26382 | 32080 | 44059 |
| 3 | Brazil | | 7263619 | 9.39 | 25019 | 25445 | 50177 | 42889 | 51088 | 18615 |
| 4 | Russia | | 2850042 | 3.68 | 28917 | 28510 | 27772 | 26265 | 25752 | 24295 |
| 5 | France | | 2477255 | 3.20 | 5797 | 12619 | 17102 | 11128 | 13511 | 13130 |
| 6 | United Kingdom | | 2073511 | 2.68 | 33364 | 35928 | 27052 | 18450 | 12281 | 18662 |
| 7 | Turkey | | 2043704 | 2.64 | 19103 | 20316 | 22195 | 32102 | 33198 | 6017 |
| 8 | Italy | | 1964054 | 2.54 | 10869 | 15102 | 16305 | 14839 | 14837 | 28337 |
| 9 | Spain | | 1819249 | 2.35 | 22013 | 0 | 0 | 10328 | 0 | 0 |
| 10 | Argentina | | 1547138 | 2.00 | 5853 | 4116 | 5795 | 6981 | 3610 | 4184 |
| 11 | Germany | | 1534218 | 1.98 | 19256 | 6444 | 21679 | 33825 | 29263 | 4377 |
| 12 | Colombia | | 1518067 | 1.96 | 10845 | 11160 | 13990 | 10130 | 7510 | 7924 |
| 13 | Mexico | | 1325915 | 1.71 | 5370 | 6870 | 12129 | 11228 | 11006 | 9187 |
| 14 | Poland | | 1207333 | 1.56 | 4633 | 8590 | 11246 | 6874 | 8310 | 17856 |
| 15 | Iran | | 1164535 | 1.51 | 6151 | 6312 | 6421 | 7704 | 11023 | 13053 |

Global Perc. Average: 0.37 (sd: 1.77)

Global Perc. Average in top 15 : 4.9 (sd: 6.04)

```
#####
#### TS-DEATHS Cases -- Data dated: 2020-12-21 :: 2020-12-22 13:02:34
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 84
Unique number of distinct geographical locations combined: 271
```

Worldwide ts-deaths Totals: 1702596

| | Country.Region | Province.State | Totals | Perc | LastDayChange | t-2 | t-3 | t-7 | t-14 | t-30 |
|----|----------------|----------------|--------|------|---------------|------|------|------|------|------|
| 1 | US | | 319364 | 1.77 | 1696 | 1509 | 2549 | 2984 | 2520 | 918 |
| 2 | Brazil | | 187291 | 2.58 | 527 | 408 | 706 | 964 | 842 | 194 |
| 3 | India | | 146111 | 1.45 | 301 | 333 | 341 | 387 | 402 | 511 |
| 4 | Mexico | | 118598 | 8.94 | 396 | 326 | 627 | 801 | 800 | 303 |
| 5 | Italy | | 69214 | 3.52 | 415 | 352 | 553 | 846 | 634 | 562 |
| 6 | United Kingdom | | 67616 | 3.26 | 215 | 326 | 534 | 506 | 599 | 398 |
| 7 | France | | 60537 | 2.44 | 351 | 130 | 187 | 787 | 831 | 214 |
| 8 | Iran | | 53816 | 4.62 | 191 | 177 | 175 | 223 | 323 | 475 |
| 9 | Russia | | 50723 | 1.78 | 481 | 498 | 574 | 564 | 552 | 396 |
| 10 | Spain | | 49260 | 2.71 | 334 | 0 | 0 | 388 | 0 | 0 |
| 11 | Argentina | | 41997 | 2.71 | 184 | 50 | 91 | 163 | 121 | 100 |
| 12 | Colombia | | 40680 | 2.68 | 205 | 207 | 249 | 161 | 163 | 183 |
| 13 | Peru | | 37103 | 3.72 | 69 | 176 | 0 | 77 | 0 | 0 |
| 14 | Germany | | 27110 | 1.77 | 710 | 229 | 417 | 910 | 568 | 98 |

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15 Poland 25474 2.11 77 143 483 349 411 330

```
#####
#### TS-RECOVERED Cases -- Data dated: 2020-12-21 :: 2020-12-22 13:02:34
#####
Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 68
Unique number of distinct geographical locations combined: 256
```

Worldwide ts-recovered Totals: 43637283

| | Country.Region | Province.State | Totals | LastDayChange | t-2 | t-3 | t-7 | t-14 | t-30 |
|----|----------------|----------------|---------|---------------|-------|-------|-------|-------|-------|
| 1 | India | | 9636487 | 30376 | 25709 | 29690 | 33813 | 36635 | 41024 |
| 2 | Brazil | | 6469310 | 60793 | 19579 | 65983 | 48434 | 67966 | 20784 |
| 3 | Russia | | 2273510 | 19684 | 20766 | 25662 | 24392 | 24471 | 17871 |
| 4 | Turkey | | 1834705 | 34419 | 21218 | 25516 | 29247 | 5245 | 3812 |
| 5 | Colombia | | 1382340 | 9008 | 10789 | 8522 | 6961 | 10731 | 6009 |
| 6 | Argentina | | 1374401 | 6055 | 5729 | 5862 | 4180 | 4891 | 8439 |
| 7 | Italy | | 1281258 | 19632 | 12156 | 23384 | 25789 | 25497 | 13574 |
| 8 | Germany | | 1147943 | 24218 | 16610 | 11133 | 19644 | 20357 | 10636 |
| 9 | Mexico | | 987328 | 9326 | 6887 | 8718 | 10335 | 7495 | 8376 |
| 10 | Poland | | 946017 | 7748 | 10546 | 12147 | 10593 | 16399 | 16896 |
| 11 | Peru | | 932295 | 1885 | 0 | 2191 | 1954 | 1735 | 5469 |
| 12 | Iran | | 894366 | 9312 | 9111 | 10469 | 10045 | 11269 | 7309 |
| 13 | South Africa | | 796346 | 2432 | 6132 | 3964 | 2231 | 7322 | 2315 |
| 14 | Ukraine | | 608120 | 5127 | 6775 | 13761 | 16571 | 13327 | 4741 |
| 15 | Chile | | 557913 | 1957 | 1623 | 2044 | 1652 | 1460 | 1537 |

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#####
#### AGGREGATED Data -- ORDERED BY CONFIRMED Cases -- Data dated: 2020-12-22 :: 2020-12-22 13:02:34
#####
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Number of Countries/Regions reported: 191
Number of Cities/Provinces reported: 575
Unique number of distinct geographical locations combined: 3967

| | Location | Confirmed | Perc.Confirmed | Deaths | Perc.Deaths | Recovered | Perc.Recovered | Active | Perc.Active |
|----|-------------------------|-----------|----------------|--------|-------------|-----------|----------------|---------|-------------|
| 1 | France | 2477255 | 3.20 | 60537 | 2.44 | 160946 | 6.50 | 2255772 | 91.06 |
| 2 | Turkey | 2043704 | 2.64 | 18351 | 0.90 | 1834705 | 89.77 | 190648 | 9.33 |
| 3 | Maharashtra, India | 1899352 | 2.46 | 48801 | 2.57 | 1789958 | 94.24 | 60593 | 3.19 |
| 4 | England, United Kingdom | 1772635 | 2.29 | 59005 | 3.33 | 0 | 0.00 | 1713630 | 96.67 |
| 5 | Argentina | 1547138 | 2.00 | 41997 | 2.71 | 1374401 | 88.84 | 130740 | 8.45 |
| 6 | Sao Paulo, Brazil | 1388043 | 1.79 | 45136 | 3.25 | 1222776 | 88.09 | 120131 | 8.65 |
| 7 | Poland | 1207333 | 1.56 | 25474 | 2.11 | 946017 | 78.36 | 235842 | 19.53 |
| 8 | Iran | 1164535 | 1.51 | 53816 | 4.62 | 894366 | 76.80 | 216353 | 18.58 |
| 9 | South Africa | 930711 | 1.20 | 24907 | 2.68 | 796346 | 85.56 | 109458 | 11.76 |
| 10 | Karnataka, India | 910241 | 1.18 | 12016 | 1.32 | 884205 | 97.14 | 14020 | 1.54 |
| 11 | Andhra Pradesh, India | 878937 | 1.14 | 7078 | 0.81 | 867867 | 98.74 | 3992 | 0.45 |
| 12 | Tamil Nadu, India | 807962 | 1.04 | 11995 | 1.48 | 786472 | 97.34 | 9495 | 1.18 |

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| | | | | | | | | | |
|----|----------------|--------|------|-------|------|--------|-------|--------|-------|
| 13 | Moscow, Russia | 743697 | 0.96 | 10469 | 1.41 | 572541 | 76.99 | 160687 | 21.61 |
| 14 | Kerala, India | 709292 | 0.92 | 2843 | 0.40 | 645779 | 91.05 | 60670 | 8.55 |
| 15 | Indonesia | 671778 | 0.87 | 20085 | 2.99 | 546884 | 81.41 | 104809 | 15.60 |

#####

AGGREGATED Data -- ORDERED BY DEATHS Cases -- Data dated: 2020-12-22 :: 2020-12-22 13:02:34

#####

Number of Countries/Regions reported: 191
 Number of Cities/Provinces reported: 575
 Unique number of distinct geographical locations combined: 3967

| | Location | Confirmed | Perc.Confirmed | Deaths | Perc.Deaths | Recovered | Perc.Recovered | Active | Perc.Active |
|----|--------------------------|-----------|----------------|--------|-------------|-----------|----------------|---------|-------------|
| 1 | France | 2477255 | 3.20 | 60537 | 2.44 | 160946 | 6.50 | 2255772 | 91.06 |
| 2 | England, United Kingdom | 1772635 | 2.29 | 59005 | 3.33 | 0 | 0.00 | 1713630 | 96.67 |
| 3 | Iran | 1164535 | 1.51 | 53816 | 4.62 | 894366 | 76.80 | 216353 | 18.58 |
| 4 | Maharashtra, India | 1899352 | 2.46 | 48801 | 2.57 | 1789958 | 94.24 | 60593 | 3.19 |
| 5 | Sao Paulo, Brazil | 1388043 | 1.79 | 45136 | 3.25 | 1222776 | 88.09 | 120131 | 8.65 |
| 6 | Argentina | 1547138 | 2.00 | 41997 | 2.71 | 1374401 | 88.84 | 130740 | 8.45 |
| 7 | Poland | 1207333 | 1.56 | 25474 | 2.11 | 946017 | 78.36 | 235842 | 19.53 |
| 8 | South Africa | 930711 | 1.20 | 24907 | 2.68 | 796346 | 85.56 | 109458 | 11.76 |
| 9 | Rio de Janeiro, Brazil | 407575 | 0.53 | 24479 | 6.01 | 377071 | 92.52 | 6025 | 1.48 |
| 10 | Lombardia, Italy | 460168 | 0.59 | 24420 | 5.31 | 374434 | 81.37 | 61314 | 13.32 |
| 11 | Indonesia | 671778 | 0.87 | 20085 | 2.99 | 546884 | 81.41 | 104809 | 15.60 |
| 12 | Turkey | 2043704 | 2.64 | 18351 | 0.90 | 1834705 | 89.77 | 190648 | 9.33 |
| 13 | Mexico, Mexico | 133823 | 0.17 | 17656 | 13.19 | 0 | 0.00 | 116167 | 86.81 |
| 14 | Lima, Peru | 442219 | 0.57 | 16577 | 3.75 | 0 | 0.00 | 425642 | 96.25 |
| 15 | Ciudad de Mexico, Mexico | 291639 | 0.38 | 15560 | 5.34 | 0 | 0.00 | 276079 | 94.66 |

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AGGREGATED Data -- ORDERED BY RECOVERED Cases -- Data dated: 2020-12-22 :: 2020-12-22 13:02:34

#####

Number of Countries/Regions reported: 191
 Number of Cities/Provinces reported: 575
 Unique number of distinct geographical locations combined: 3967

| | Location | Confirmed | Perc.Confirmed | Deaths | Perc.Deaths | Recovered | Perc.Recovered | Active | Perc.Active |
|----|-----------------------|-----------|----------------|--------|-------------|-----------|----------------|--------|-------------|
| 1 | Turkey | 2043704 | 2.64 | 18351 | 0.90 | 1834705 | 89.77 | 190648 | 9.33 |
| 2 | Maharashtra, India | 1899352 | 2.46 | 48801 | 2.57 | 1789958 | 94.24 | 60593 | 3.19 |
| 3 | Argentina | 1547138 | 2.00 | 41997 | 2.71 | 1374401 | 88.84 | 130740 | 8.45 |
| 4 | Sao Paulo, Brazil | 1388043 | 1.79 | 45136 | 3.25 | 1222776 | 88.09 | 120131 | 8.65 |
| 5 | Poland | 1207333 | 1.56 | 25474 | 2.11 | 946017 | 78.36 | 235842 | 19.53 |
| 6 | Iran | 1164535 | 1.51 | 53816 | 4.62 | 894366 | 76.80 | 216353 | 18.58 |
| 7 | Karnataka, India | 910241 | 1.18 | 12016 | 1.32 | 884205 | 97.14 | 14020 | 1.54 |
| 8 | Andhra Pradesh, India | 878937 | 1.14 | 7078 | 0.81 | 867867 | 98.74 | 3992 | 0.45 |
| 9 | South Africa | 930711 | 1.20 | 24907 | 2.68 | 796346 | 85.56 | 109458 | 11.76 |
| 10 | Tamil Nadu, India | 807962 | 1.04 | 11995 | 1.48 | 786472 | 97.34 | 9495 | 1.18 |
| 11 | Kerala, India | 709292 | 0.92 | 2843 | 0.40 | 645779 | 91.05 | 60670 | 8.55 |
| 12 | Delhi, India | 617808 | 0.80 | 10304 | 1.67 | 598249 | 96.83 | 9255 | 1.50 |
| 13 | Moscow, Russia | 743697 | 0.96 | 10469 | 1.41 | 572541 | 76.99 | 160687 | 21.61 |
| 14 | Uttar Pradesh, India | 575621 | 0.74 | 8212 | 1.43 | 550587 | 95.65 | 16822 | 2.92 |

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| | | | | | | | | | | | | | | | |
|--|---------------------------------|-----------|----------------|--------|-------------|-----------|----------------|---------|-------------|--|--|--|--|--|--|
| 15 | Indonesia | 671778 | 0.87 | 20085 | 2.99 | 546884 | 81.41 | 104809 | 15.60 | | | | | | |
| ===== | | | | | | | | | | | | | | | |
| ##### | | | | | | | | | | | | | | | |
| #### AGGREGATED Data -- ORDERED BY ACTIVE Cases -- Data dated: 2020-12-22 :: 2020-12-22 13:02:34 | | | | | | | | | | | | | | | |
| ##### | | | | | | | | | | | | | | | |
| Number of Countries/Regions reported: 191 | | | | | | | | | | | | | | | |
| Number of Cities/Provinces reported: 575 | | | | | | | | | | | | | | | |
| Unique number of distinct geographical locations combined: 3967 | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |
| | Location | Confirmed | Perc.Confirmed | Deaths | Perc.Deaths | Recovered | Perc.Recovered | Active | Perc.Active | | | | | | |
| 1 | France | 2477255 | 3.20 | 60537 | 2.44 | 160946 | 6.50 | 2255772 | 91.06 | | | | | | |
| 2 | England, United Kingdom | 1772635 | 2.29 | 59005 | 3.33 | 0 | 0.00 | 1713630 | 96.67 | | | | | | |
| 3 | Los Angeles, California, US | 634849 | 0.82 | 8931 | 1.41 | 0 | 0.00 | 625918 | 98.59 | | | | | | |
| 4 | Lima, Peru | 442219 | 0.57 | 16577 | 3.75 | 0 | 0.00 | 425642 | 96.25 | | | | | | |
| 5 | Cook, Illinois, US | 373008 | 0.48 | 7802 | 2.09 | 0 | 0.00 | 365206 | 97.91 | | | | | | |
| 6 | Madrid, Spain | 377921 | 0.49 | 11660 | 3.09 | 40736 | 10.78 | 325525 | 86.14 | | | | | | |
| 7 | Serbia | 303747 | 0.39 | 2733 | 0.90 | 0 | 0.00 | 301014 | 99.10 | | | | | | |
| 8 | Catalonia, Spain | 333704 | 0.43 | 8533 | 2.56 | 26203 | 7.85 | 298968 | 89.59 | | | | | | |
| 9 | Maricopa, Arizona, US | 284462 | 0.37 | 4685 | 1.65 | 0 | 0.00 | 279777 | 98.35 | | | | | | |
| 10 | Ciudad de Mexico, Mexico | 291639 | 0.38 | 15560 | 5.34 | 0 | 0.00 | 276079 | 94.66 | | | | | | |
| 11 | Miami-Dade, Florida, US | 276414 | 0.36 | 4097 | 1.48 | 0 | 0.00 | 272317 | 98.52 | | | | | | |
| 12 | Andalusia, Spain | 254998 | 0.33 | 4841 | 1.90 | 10671 | 4.18 | 239486 | 93.92 | | | | | | |
| 13 | Poland | 1207333 | 1.56 | 25474 | 2.11 | 946017 | 78.36 | 235842 | 19.53 | | | | | | |
| 14 | Harris, Texas, US | 221860 | 0.29 | 3245 | 1.46 | 0 | 0.00 | 218615 | 98.54 | | | | | | |
| 15 | Iran | 1164535 | 1.51 | 53816 | 4.62 | 894366 | 76.80 | 216353 | 18.58 | | | | | | |
| ===== | | | | | | | | | | | | | | | |
| | Confirmed | Deaths | Recovered | Active | | | | | | | | | | | |
| Totals | 77353897 | 1683106 | 41717660 | NA | | | | | | | | | | | |
| Average | 19499.34 | 424.28 | 10516.17 | NA | | | | | | | | | | | |
| Standard Deviation | 98087.71 | 2494.39 | 73820.05 | NA | | | | | | | | | | | |
| * Statistical estimators computed considering 3967 independent reported entries | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | |
| ***** OVERALL SUMMARY***** | | | | | | | | | | | | | | | |
| ***** | | | | | | | | | | | | | | | |
| **** | Time Series Worldwide TOTS **** | | | | | | | | | | | | | | |
| | ts-confirmed | ts-deaths | ts-recovered | | | | | | | | | | | | |
| | 77364641 | 1702596 | 43637283 | | | | | | | | | | | | |
| | 2.2% | 56.4% | | | | | | | | | | | | | |
| **** | Time Series Worldwide AVGS **** | | | | | | | | | | | | | | |
| | ts-confirmed | ts-deaths | ts-recovered | | | | | | | | | | | | |
| | 285478.38 | 6282.64 | 170458.14 | | | | | | | | | | | | |
| | 2.2% | 59.71% | | | | | | | | | | | | | |
| **** | Time Series Worldwide SDS **** | | | | | | | | | | | | | | |
| | ts-confirmed | ts-deaths | ts-recovered | | | | | | | | | | | | |
| | 1371170.21 | 26739.03 | 768812.37 | | | | | | | | | | | | |
| | 1.95% | 56.07% | | | | | | | | | | | | | |

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* Statistical estimators computed considering 271/271/256 independent reported entries per case-type
