

Reasoning about Fatality Rate of Covid19

Sept 24, 2020

From <https://coronavirus.1point3acres.com/en>

Last updated at : 2020-09-24 12:00 CDT

Location	Cases	Deaths	Recovered	Fatality
United States	+13,208 7,091,092	+339 206,228	+1,936 3,802,661	2.9%
World	+262,748 31,779,835	+5,563 975,104	+266,008 21,890,442	3.1%

Location	Cases	Deaths	Fatality
United States	+13,208	+339	
CDC	7,091,092	206,228	2.9%
▶ California 🏠 📄 🔗 📄	+167 796,817	+3 15,316	1.9%
▶ Texas 🏠 📄 🔗 📄	736,326	15,137	2.1%
▶ Florida 🏠 📄 🔗 📄	+2,543 693,042	+177 13,795	2%
▶ New York 🏠 📄 🔗 📄	456,922	33,090	7.2%
▶ Georgia 🏠 📄 🔗 📄	310,221	6,777	2.2%
▶ Illinois 🏠 📄 🔗 📄	279,120	8,508	3%
▶ Arizona 🏠 📄 🔗 📄	215,284	5,525	2.6%
▶ New Jersey 🏠 📄 🔗 📄	201,128	16,208	8.1%

The Denominator

1. Past Data on “confirmed cases”: by [State over Time](#) (CDC data)
 - [Projection of # of “Confirmed” Cases](#) : predicting the JHU/CDC number, which reflects “confirmed cases” not actual cases.

2. Estimating [true number of covid infections from seriological tests](#).
 - CDC study; Dr. Redford: 10 times higher, July;
 - Eric Topol (Scripps): 8 times higher, Aug.
 - Difference reducing with increased testing
 - Projections of “True Number”.
 - 4 [Model based estimates](#) (ICL, IHME, London, YYG)
 - [IHME projections](#)

The Numerator

How many of reported deaths should be attributed to Covid? [Only 6%](#)?

- “Only 6% of the people actually died from COVID”.
The others “died from other reasons.”

Excess Deaths

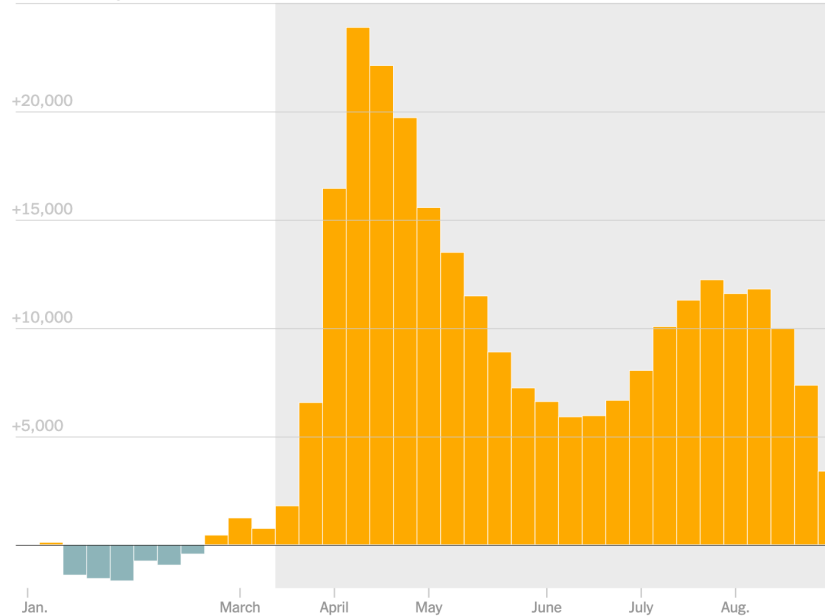
- From <https://www.nytimes.com/interactive/2020/05/05/us/coronavirus-death-toll-us.html> Sept 22, 2020 (CDC data)
- [CDC provides detailed information about “excess mortality”](#), with downloadable datasheets.

U.S. Deaths Above or Below Normal

257,900 excess deaths from March 15 to Aug. 29

+25,000 weekly deaths

Recent weeks are likely undercounts.



Note: The chart shows the difference between measured deaths and expected deaths each week. Deaths above the expected number are considered to be “excess deaths.”

The True Coronavirus Toll

The New York Times

The True Coronavirus Toll in the U.S. Has Already Surpassed 200,000

By Denise Lu Aug. 13, 2020

Estimated deaths above normal, March 1 to July 25

South 57,000 total excess deaths

+6,000 more weekly deaths than expected



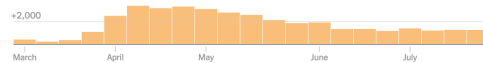
West 29,000 total excess deaths

+2,000 more weekly deaths than expected



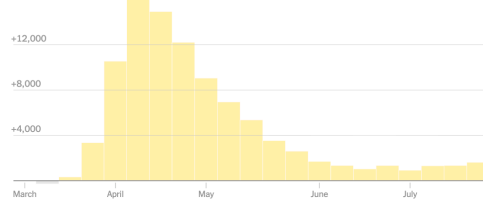
Midwest 38,000 total excess deaths

+4,000 more weekly deaths than expected



Northeast 95,000 total excess deaths

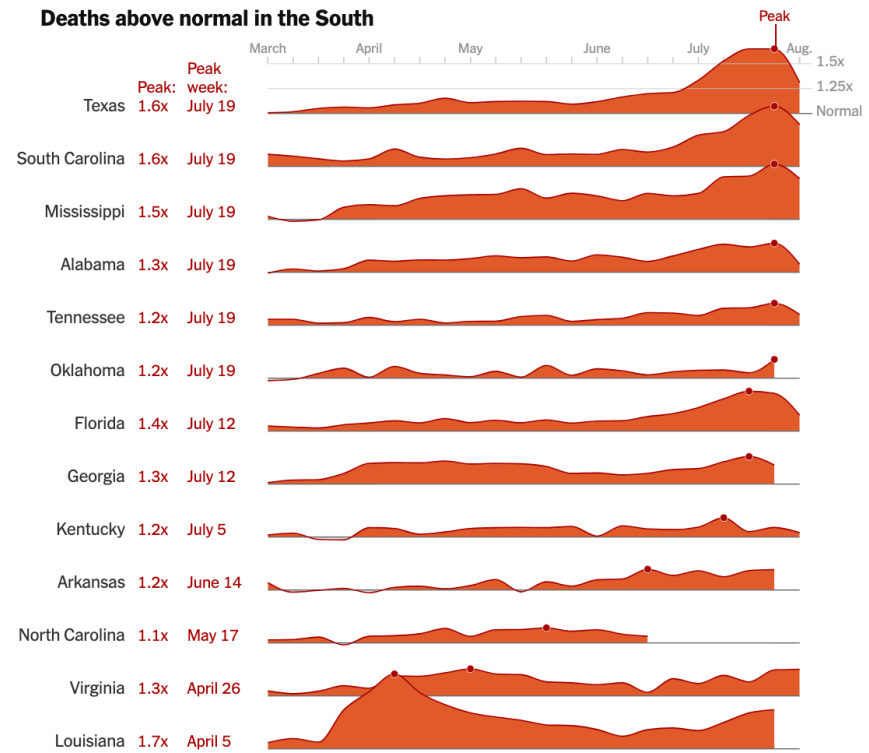
+16,000 more weekly deaths than expected



Note: Data is most likely an undercount for some states in recent weeks.

Across the United States, at least [200,000 more people](#) have died

Deaths above normal in the South



Epilogue: From The Economist, 9/26/2020

Briefing

Sep 26th 2020 edition >

One million and counting

The covid-19 pandemic is worse than official figures show

But some things are improving, and it will not go on for ever

The excessive force of destiny

The Economist has gathered all-cause mortality data from countries which report them weekly or monthly, a group which includes most of western Europe, some of Latin America, and a few other large countries, including the United States, Russia and South Africa (see lower part of data panel). Between March and August these countries recorded 580,000 covid-19 deaths but 900,000 excess deaths; the true toll of their share of the pandemic appears to have been 55% greater than the official one. This analysis suggests that America's official figures underestimate the death toll by 30% or more (America's Centres for Disease Control and Prevention have provided a similar estimate). This means that the real number of deaths to date is probably a lot closer to 300,000 than 200,000. That is about 10% of the 2.8m Americans who die each year—or, put another way, half the number who succumb to cancer. And there is plenty of 2020 still to go.