



"Strategic Advice in an Era of Unprecedented Change"

COVID19 VITAL SIGNS

ISSUE #363

TUESDAY, JANUARY 4, 2022

Despite Breakthrough Cases, Vaccine Effectiveness Remains High

Daily Cases Per 100,000: Fully Vaccinated v. Unvaccinated

New York State

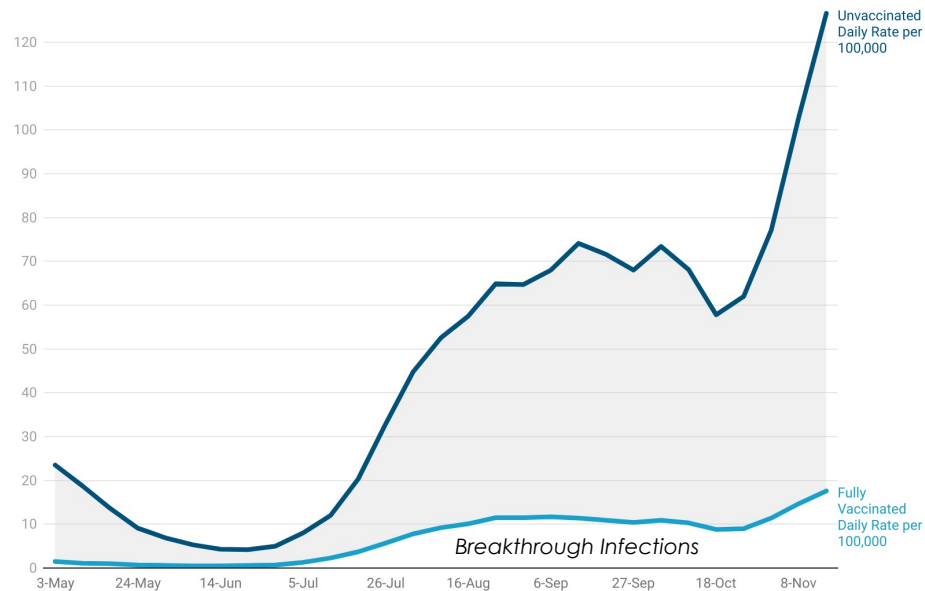


Chart: Health Industry Advisor LLC • Source: New York State • Created with Datawrapper

Week Starting

Daily Hospitalizations Per 100,000: Fully Vaccinated v. Unvaccinated

New York State

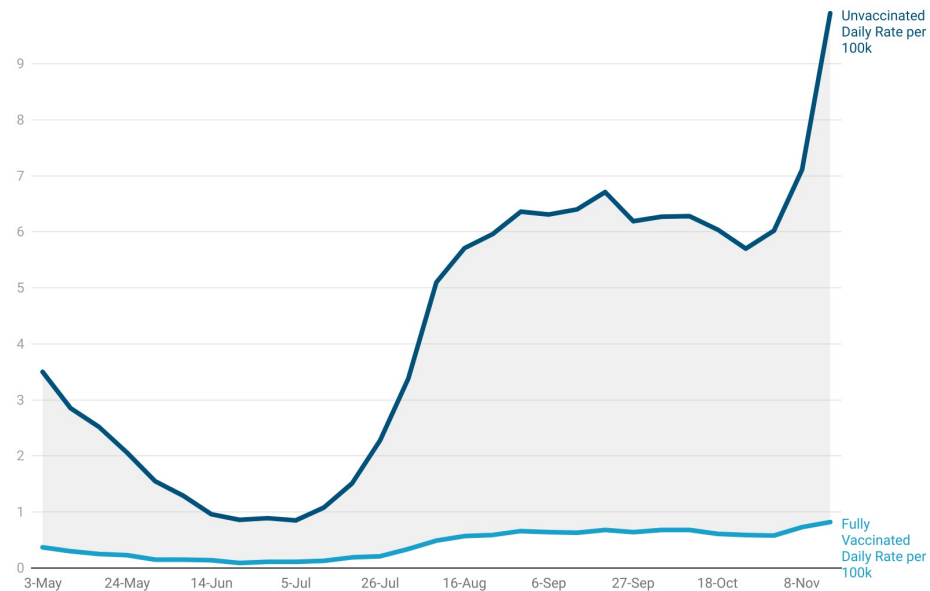


Chart: Health Industry Advisor LLC • Source: New York State • Created with Datawrapper

Week Starting

For the most recently reported week:

- ✓ **1-in-5,700** vaccinated persons reported a new breakthrough case
- ✓ **1-in-800** unvaccinated persons reported a new case
- ✓ **1-in-122,000** vaccinated persons was hospitalized
- ✓ **1-in-10,000** unvaccinated persons were hospitalized

Vaccine Effectiveness in Preventing Infection Slipped With Delta; Remains High in Preventing Hospitalizations

Vaccine Effectiveness: Cases & Hospitalizations

New York State

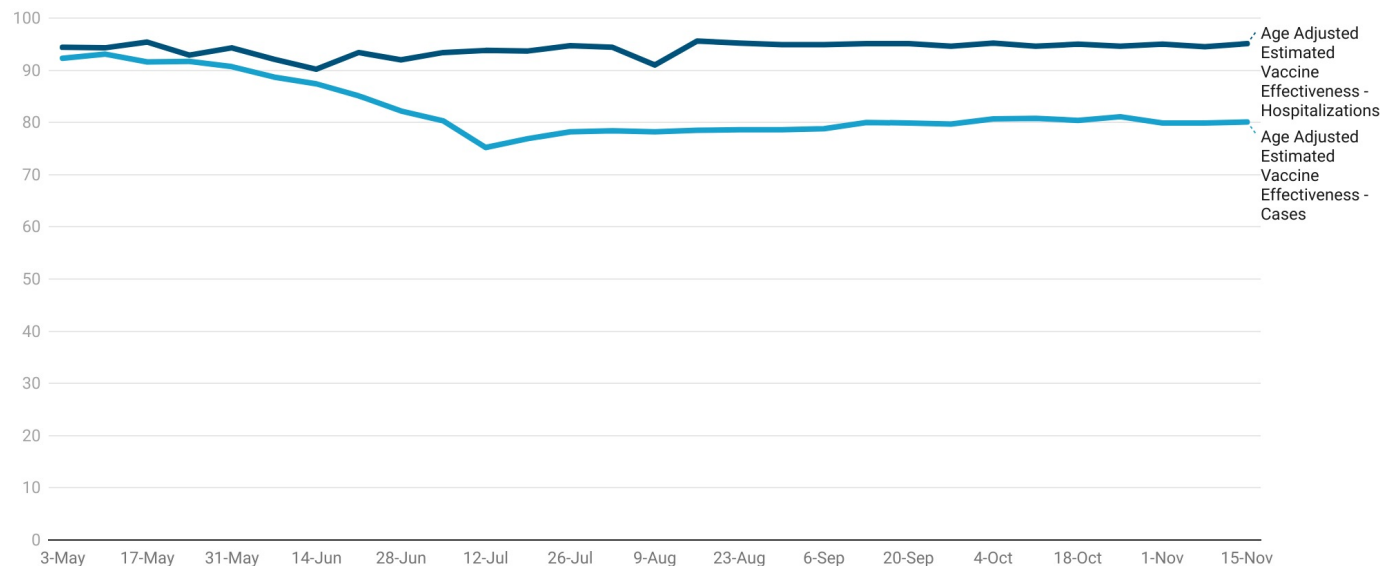


Chart: HealthIndustry Advisor LLC • Source: New York state • Created with Datawrapper

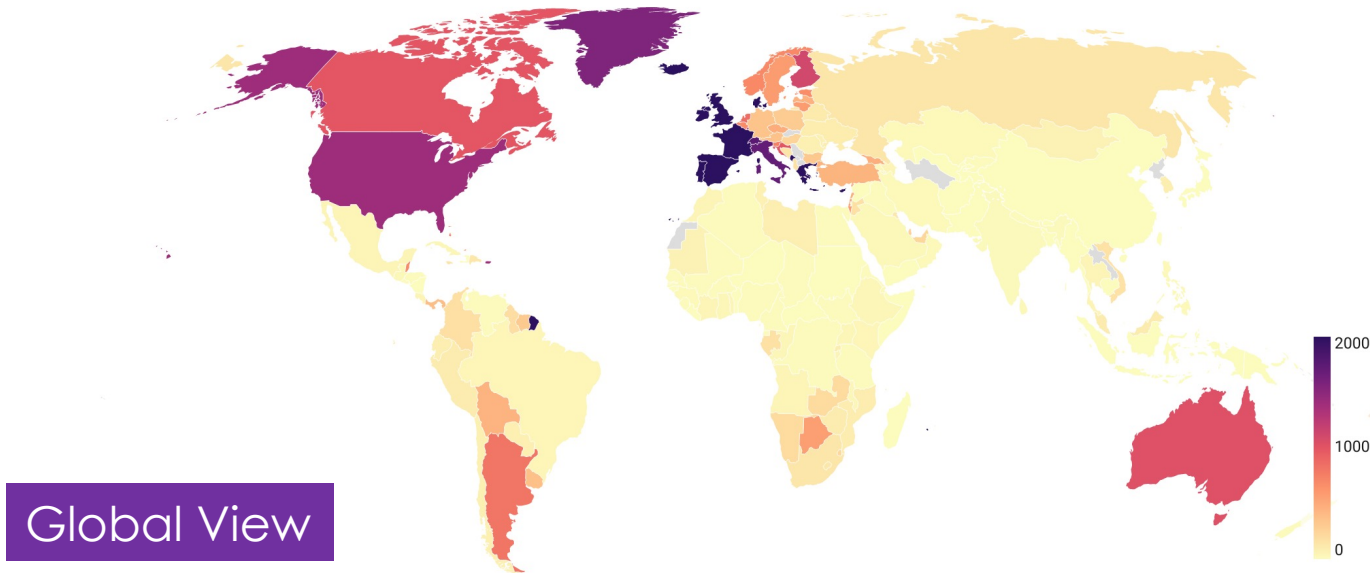
Vaccines have remained **95% effective in preventing hospitalization**, through both Delta and the early stages of Omicron.

Effectiveness in preventing infections slipped with Delta. Its too early to discern Omicron's impact.

New Case Rates per Capita Exploding Across Western Europe

New Daily Cases / Million

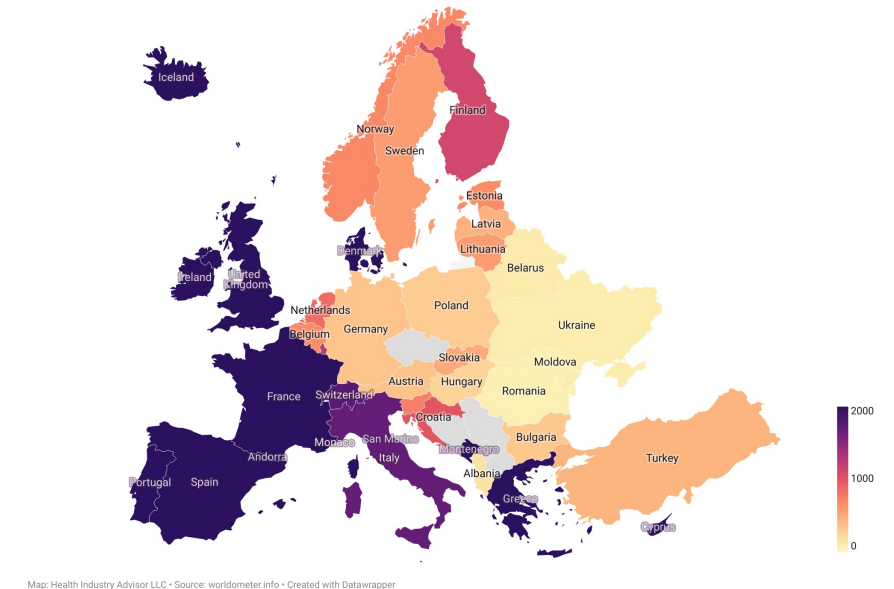
7-Day Average, As of January 3



Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

New Daily Cases / Million

7-Day Average, As of January 3



Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Omicron and A Lack of Test Supplies Are Driving Up Test-Positive Rates

Test-Positivity Rate

7-Day Average, Through December 21

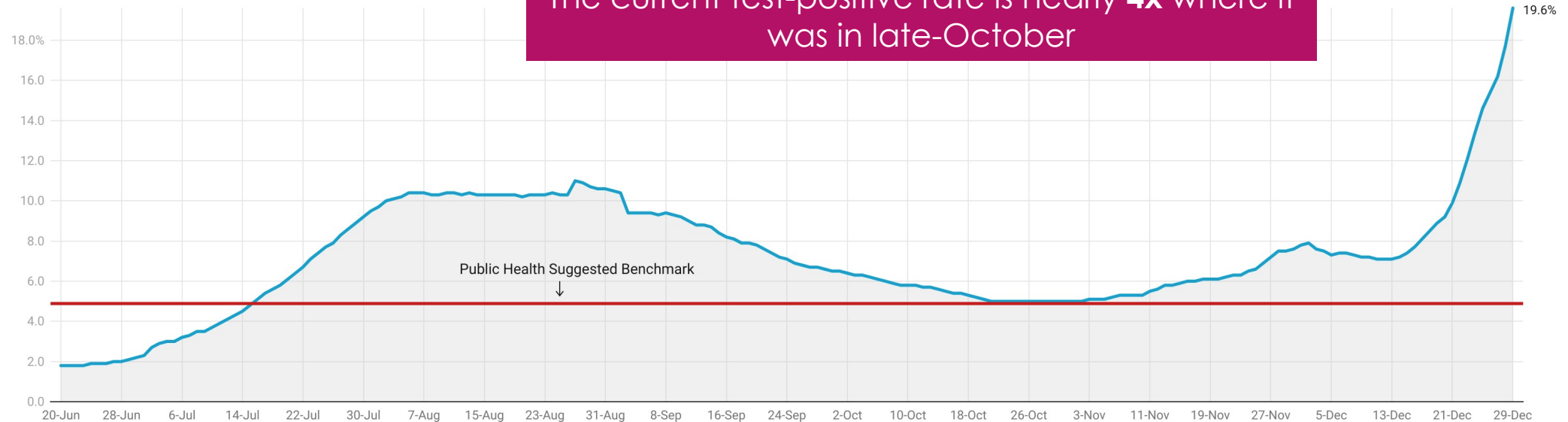


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper



Estimated Infections Are Spiking Faster Than Reported Cases

Estimated Daily Infections v. Detected Cases

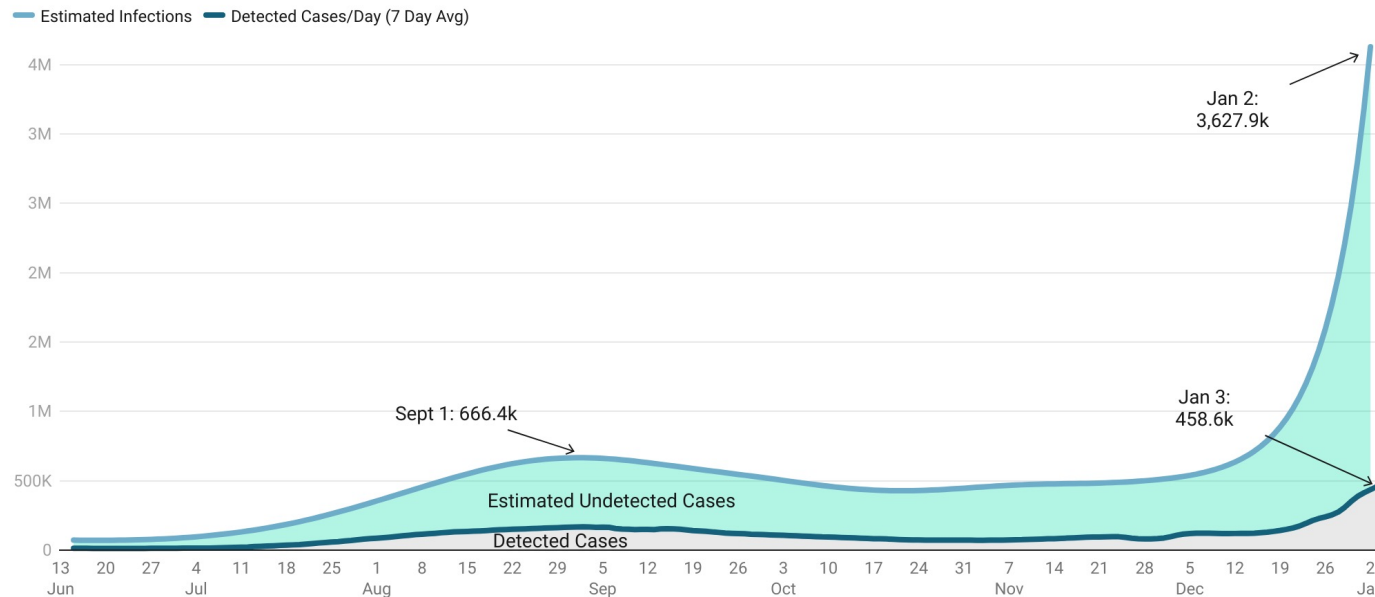


Chart: Health Industry Advisor LLC • Source: Harvard, Stanford & Yale Schools of Public Health • Created with Datawrapper

- ✓ **1%** of the U.S. population may have been infected on Sunday alone (Harvard/Stanford/Yale Schools of Public Health estimate)
- ✓ **10%** of the population may have been infected in just over three weeks
- ✓ Estimated infections are **8x** higher than reported cases

Cases Are Nearly Doubling Each Week – When Will This Growth Taper?

Week-Over-Week Change In New Daily Cases Per Million

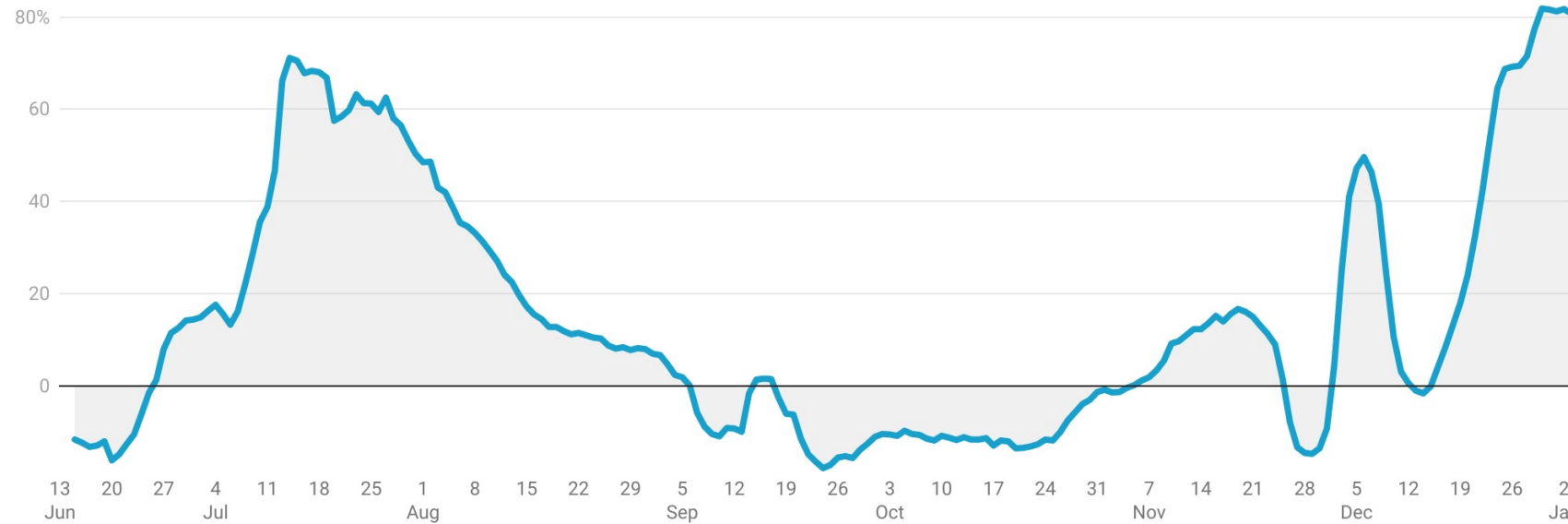


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

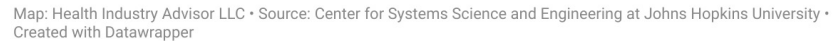
New Daily Cases Per Capita Are Spiking in the Midwest, Northeast and Southeast

7-Day Average, As of January 3



Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

7-Day Average, As of January 3



County View

How Fast Are Cases Doubling? Tripling?

States With Highest Current 7-Day Infection Rates

	Days It Took For Cases To:	
	<u>Double</u>	<u>Triple</u>
New York	9	13
New Jersey	9	12
District of Columbia	13	15
Massachusetts	6	18

States With Fastest-Growing Case Rates

	Days It Took For Cases To:	
	<u>Double</u>	<u>Triple</u>
Indiana	6	7
Alabama	5	7
Mississippi	5	7
Arkansas	7	7

States With Highest Case Rates and Fastest Case Growth

States With Highest Current Case Rate

7-Day Average, New Daily Cases Per Million

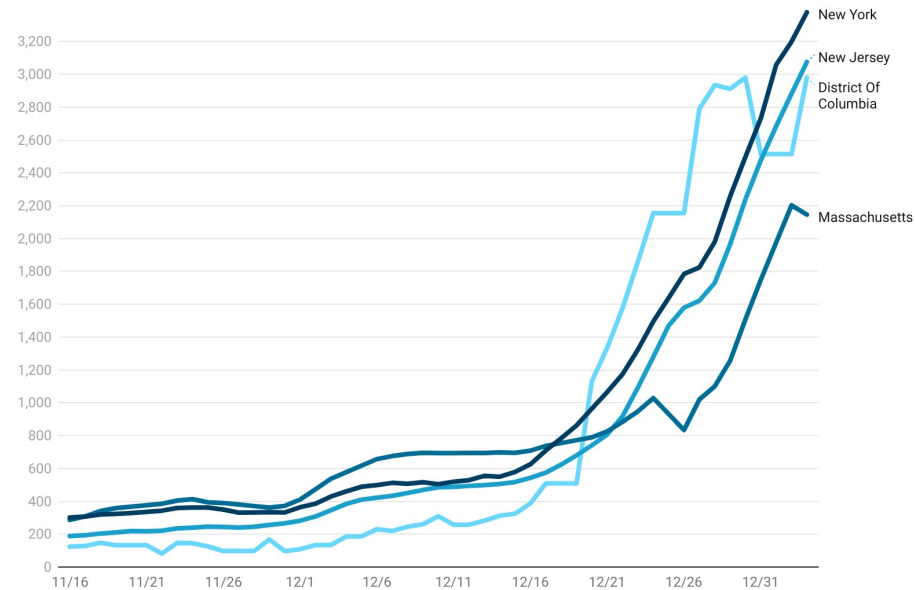


Chart: Health Industry advisor LLC • Source: worldometers.info • Created with Datawrapper

States In Which Average Daily Cases Tripled In Last Week

7-Day Average, New Daily Cases Per Million

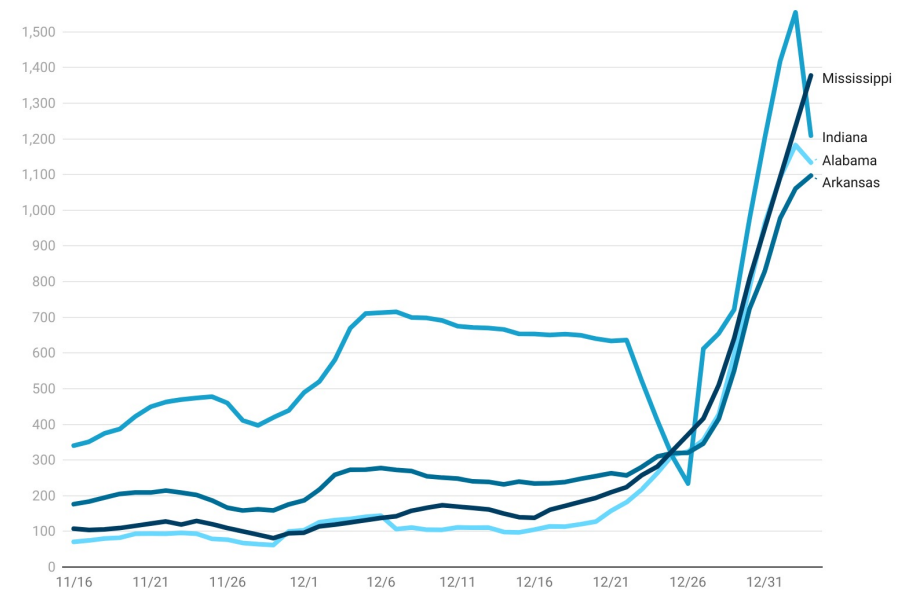


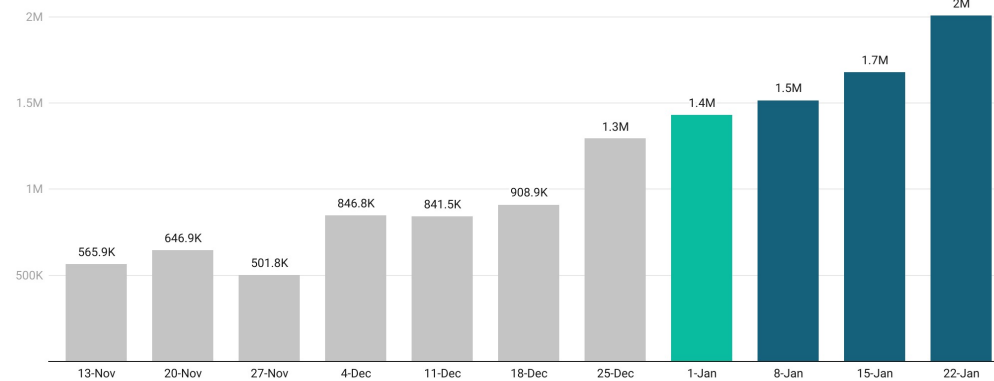
Chart: Health Industry advisor LLC • Source: worldometers.info • Created with Datawrapper

What is the Consensus for Cases and Deaths in the Next Few Weeks?

Source: Covid-19 Forecast Hub

Newly-Reported Cases Per Week

Covid-19 Forecast Hub, Composite Forecast As of December 25



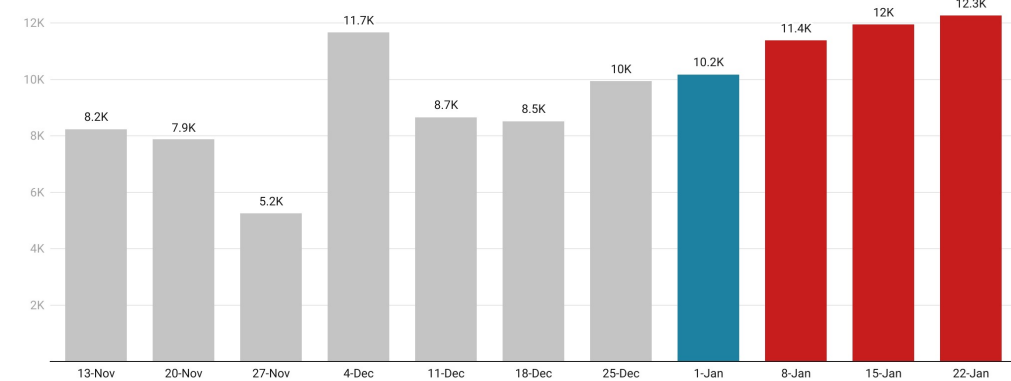
For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

Actual
 Projection – Current Week
 Projection – Next 3 Weeks

Newly-Reported Deaths Per Week

Covid-19 Forecast Hub, Composite Forecast As of December 18



For the week ending on the date shown

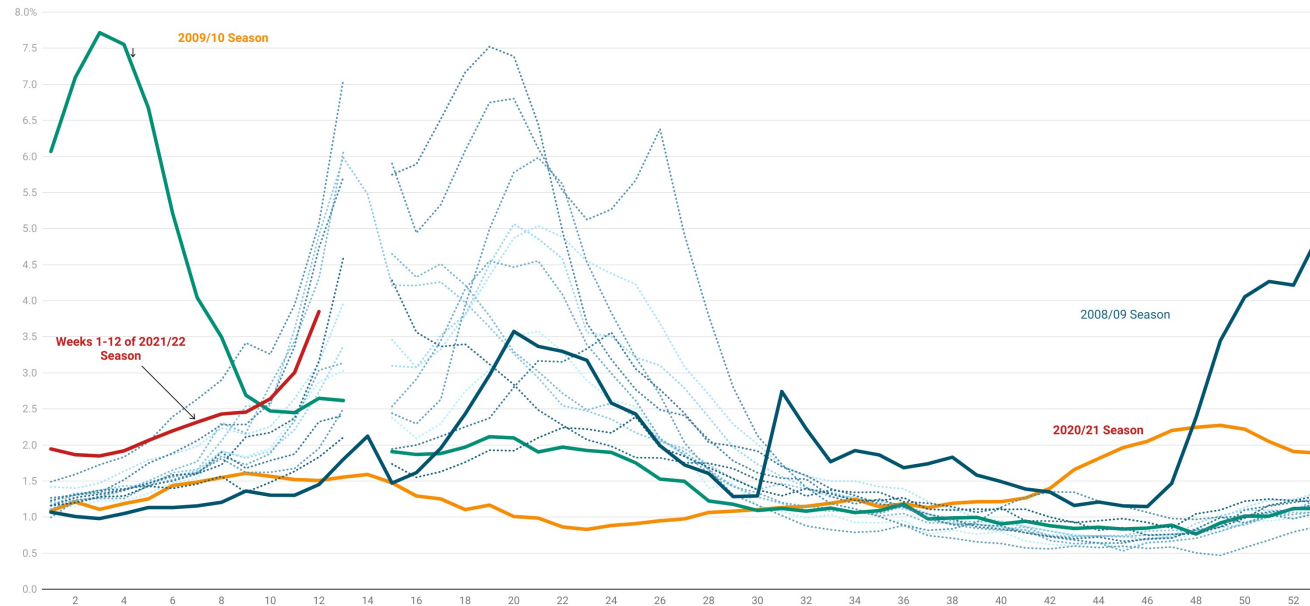
Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

Actual
 Projection – Current Week
 Projection – Next 3 Weeks

Flu Visits Are Spiking, Following the Pattern of Most Flu Seasons

Percentage Visits for Influenza-Like Illness, National Summary

Comparison of Last Fifteen Seasons



Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet
Chart: Health Industry Advisor LLC • Source: Centers For Disease Control and Prevention • Created with Datawrapper

Death With Coronavirus Remain One-Third Lower Than During the Delta Wave

Deaths With Coronavirus

7-Day Average, Through January 3

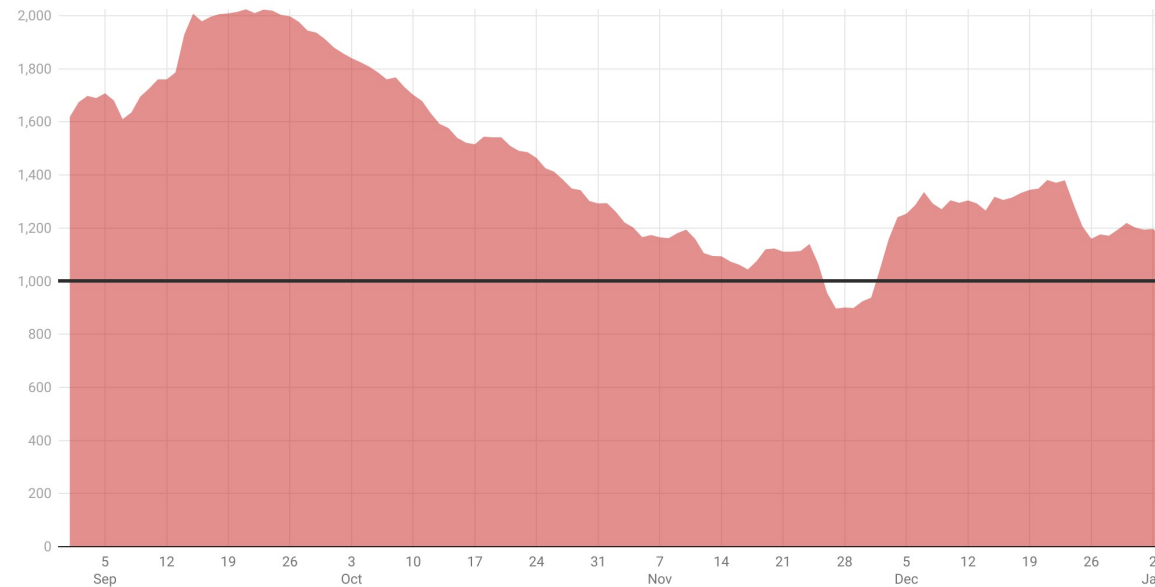


Chart: Health Industry Advisor LLC • Created with Datawrapper

Sources

- ▶ Bloomberg Vaccine Trackers, <https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=ZOb6TmH>
- ▶ Centers for Disease Control and Prevention, COVID Data Tracker <https://www.cdc.gov/covid-data-tracker/index.html#mobility>
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- ▶ Covid-19 Forecast Hub, <https://viz.covid19forecasthub.org>
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