

A Final Report Card on the States' Response to COVID-19

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(We wish to thank Jay Bhattacharya for his review of this study and his instructive advice.)

Introduction

Almost exactly two years ago COVID-19 spread to the United States and our federal, state and local governments implemented strategies to mitigate the damage from this deadly virus.

We now know from the responses across countries that the U.S. federal government (and most governments around the world) made many tragic mistakes in responding to Covid 19. But one of the wisest policy decisions was to ultimately let the 50 states and their governors and legislators make their own pandemic response policies. Federalism worked. States learned from one another over time about what policies worked most and least effectively in terms of containing the virus while minimizing the negative effects of lockdown strategies on businesses and children.

In the beginning stages of the pandemic, the Committee to Unleash Prosperity released a widely cited study and early stage report card on how the states were responding to the pandemic, based on how many jobs and how much GDP was lost and how states were performing in terms of reducing Covid infections and deaths.¹ This study is an expanded and updated version of that original report card of how the 50 states handled COVID.

The study primarily examined three variables: health outcomes, economic performance throughout the pandemic, and impact on education (i.e., the number of days of schooling that children missed).

¹ Committee to Unleash Prosperity, "Grading Our GOvernors: A Report Card on Reopening States' Economies ," https://committeetounleashprosperity.com/wp-content/uploads/2020/10/Governors-Report-Card-Updated1.pdf

Background

Modern economies like the United States spend considerable resources on health, ranging from hospitals to drugs, to device manufacturing to at-home care. With health very high among the American population's priorities, it is no surprise that government officials and most citizens were willing to sacrifice income and some of their daily routines and normal freedoms in order to significantly reduce the burden of this new disease.

The COVID-19 pandemic was distinct from other previous health pandemics in the degree to which we saw political interventions in the economy and suspension of individual freedoms – including policies such as lockdowns, curfews, mask and vaccine mandates, mandatory business closures, school shutdowns, and so on. Many of these policies were based on flawed analysis and worst-case scenarios that often grabbed newspaper headlines.

After the first several months of the pandemic, decisions about the most effective policies to balance health risks and allowing businesses to stay open and workers to go to work, as well as keeping schools, stores, churches and parks open and under what conditions were left to the 50 states. The purpose of this paper is to measure and compare the different economic and health trajectories across the 50 states and DC.

Our measures fall into three categories: the economy, education, and mortality. For economic performance we used two measures: unemployment and GDP by state. For education we used a single metric: the Burbio cumulative in-person instruction percentage for the complete 2020-2021 school year, with hybrid instruction weighted half. For mortality we used two measures: COVID-associated deaths reported to the CDC and all-cause excess mortality.

Of course, even without a pandemic, states populations are heterogeneous and their economies emphasize different industries. And because the pandemic had a much more negative effect on economic output in some industries (such as entertainment, energy production, mining, hotels and food), we adjust unemployment and GDP changes for industry composition. We adjust COVID mortality (through March 5, 2022) for age and "metabolic health," by which we mean the pre-pandemic prevalence of obesity and diabetes – as these are highly correlated with higher death rates from the virus.

Economy and schooling are positively correlated (correlation coefficient = 0.43), which suggests a relationship between the willingness of the population (or its politicians) to resume normal activity in business and school. MT, SD, NE, and UT are the states highest on the economy score and also among only seven states to exceed 85 percent open schools. The correlation between health and economy scores is essentially zero, which suggests that states that withdrew the most from economic activity did not significantly improve health by doing so.

We should note that Hawaii, as an isolated island, stands out as a special case. It ranks last on the economic index and sixth from last on schooling. As of March 2022, it ranks first on health. Understood in the context of island nations such as Australia and New Zealand, the experience of HI suggests that island locations can, by sustaining significant economic losses, reduce mortality for a year or more. (Australia and New Zealand saw higher outbreaks in later stages of the virus spread.) With that said, we do not understand how it is helpful to close schools on a nearly COVID-free island. Maine opened its schools at almost triple the rate as Hawaii did and was able to achieve a health score almost as high.

The economy and education components were likely influenced by decisions made by policymakers, but it is unclear if that is the case for the mortality component. One possible exception is nursing home policies, which may explain why several states, especially New York and New Jersey, performed poorly on mortality metrics. A recent comprehensive global review by Heneghan, et. al. (2021) concluded that COVID-19 disproportionately occurred in nursing homes. Because the states that were transferring COVID patients from hospitals to nursing homes also tended to systematically underreport nursing home deaths so this is a difficult question to examine quantitatively.

Using other methods, several studies have also found little health benefit of closing schools or businesses. Several studies find low COVID-19 transmission rates in schools. Herby, Jonung, and Hanke's (2022) metaanalysis finds that "lockdowns in Europe and the United States only reduced COVID-19 mortality by 0.2% on average." Mulligan (2021b) finds that in-person workplaces were often safer, in terms of COVID transmission per person per hour, than

households were due to the additional prevention efforts made in workplaces. Several other studies have found that efforts to reduce COVID mortality had costly unintended consequences.

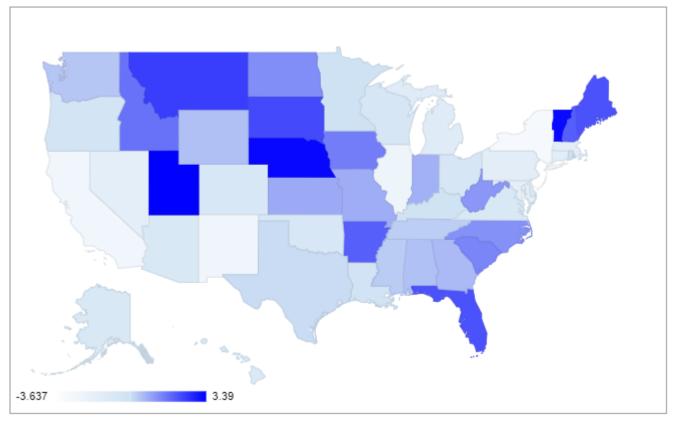
In addition to calculating category-specific indices, we also calculated a single combined score that equally weights the z-scores of the three components and then transforms to a 0-100 scale.

Results

This summary map shows combined scores. The table shows each state's combined score alongside its components.

The outcomes in NJ, NY, and CA were among the worst in all three categories: morality, economy, and schooling. UT, NE, and VT were leaders in all three categories. The scores have a clear spatial pattern, perhaps reflecting spatial correlations in demographic, economic, and political variables. However, IL, NM, CO, and CA are outliers among their geographic neighbors in the direction of low combined scores. FL, AR, WV, and UT are outliers in the other direction.

State Pandemic Performance, Combined Score



Source: Committee to Unleash Prosperity

Grade	Rank	States/DC	Combined Score	Scaled (0-100) Combined Score	Unemploy ment (Industry- Adjusted)	Rank	GDP (Industry- Adjusted)		Economy Average (Z Scores)	Rank	In-Person School %	Rank	Age and Metabolic Health Adjusted COVID Deaths per 100K	Rank	All-Cause Excess Deaths		Mortality Average (Z Scores)	Rank
A+	2	Utah	3.46	100.0	1.5%	6	0.6%	2	1.42	4	87.3%	2	252.7	13	10.6%	7	0.84	8
A+	3	Nebraska	3.25	97.0 96.9	0.6%	2	-0.4%	31	1.47	3 19	87.0%	6 11	257.9	14	12.8%	12	0.58 2.13	11
A+	4	Vermont Montana	2.29	83.4	0.2%	1	-3.3%	31	1.91	19	79.5% 85.7%	- 11	155.5 344.6	41	5.3%	38	-0.75	40
A	5	Nontana South Dakota	2.29	80.4	0.2%	3	0.5%	1	1.91	2	89.3%	4	344.0	41	21.9%	47	-0.75	40
A	6	Florida	2.08	79.9	2.1%	15	-1.5%	14	0.57	13	96.2%	- 3	277.1	22	18.8%	34	-0.98	28
A	7	New Hampshire	1.99	79.2	2.1%	19	-2.0%	22	0.35	13	60.9%	28	192.5	5	7.7%	3	1.61	3
A	8	Maine	1.95	78.6	2.5%	24	-0.8%		0.63	11	58.1%	31	171.8	3	11.5%	9	1.41	4
A	9	Arkansas	1.88	77.7	2.0%	11	-1.3%	13	0.69	10	96.8%	2	287.9	26	21.0%	43	-0.43	37
В	10	Idaho	1.63	74.1	1.5%	5	-0.1%	6	1.23	5	70.6%	20	305.1	31	15.6%	20	-0.07	26
В	11	Iowa	1.43	71.2	2.4%	21	-1.6%	16	0.44	16	75.4%	16	267.6	17	14.9%	18	0.31	16
В	12	South Carolina	1.32	69.8	2.0%	14	-1.0%	11	0.73	8	77.6%	12	271.9	19	19.7%	41	-0.18	31
в	13	North Carolina	1.15	67.2	2.2%	17	-1.9%	19	0.42	17	50.8%	34	228.1	8	9.5%	5	1.14	7
В	14	North Dakota	1.08	66.2	4.0%	43	0.1%	5	0.25	20	82.2%	9	352.0	44	12.4%	11	-0.15	30
в	15	West Virginia	1.01	65.4	2.5%	25	-2.5%	28	0.15	26	62.7%	27	204.4	7	15.8%	21	0.75	9
В	16	Missouri	0.70	61.0	1.7%	10	-2.4%	27	0.47	15	68.6%	22	299.2	29	17.0%	23	-0.14	29
в	17	Kansas	0.70	61.0	2.4%	22	-2.4%	25	0.21	22	69.9%	21	272.8	20	17.2%	26	0.05	19
В	18	Indiana	0.66	60.3	2.6%	29	-2.0%	20	0.23	21	75.6%	15	302.4	30	18.0%	31	-0.26	33
С	19	Georgia	0.57	59.2	1.6%	8	-3.7%	35	0.18	23	76.7%	13	296.7	28	19.3%	36	-0.34	36
С	20	Alabama	0.42	57.0	2.0%	13	-3.6%	34	0.01	28	74.8%	17	291.1	27	18.7%	32	-0.24	32
С	21	Wyoming	0.42	57.0	2.6%	28	-4.2%	40	-0.36	37	100.0%	1	315.9	35	24.5%	48	-0.99	45
С	22	Washington	0.36	56.2	3.0%	36	0.3%	4	0.71	9	22.3%	47	203.4	6	9.7%	6	1.33	5
С	23	Mississippi	0.24	54.4	1.1%	4	-1.9%	18	0.86	7	76.2%	14	354.1	45	24.9%	49	-1.34	49
С	24	Tennessee	0.18	53.6	2.5%	27	-2.3%	24	0.17	24	71.7%	18	316.3	36	19.3%	37	-0.51	38
С	25	Texas	0.06	51.8	4.0%	42	-1.1%	12	-0.08	31	83.0%	8	332.6	39	21.9%	46	-0.88	43
С	26	Minnesota	-0.16	48.8	2.3%	18	-3.6%	32	-0.07	30	46.0%	37	261.2	15	13.0%	13	0.54	13
С	27	Rhode Island	-0.16	48.8	3.8%	39	-3.6%	33	-0.68	41	65.4%	24	318.4	37	10.7%	8	0.29	17
С	28	Kentucky	-0.19	48.4	1.6%	7	-2.4%	26	0.54	14	44.9%	39	286.4	25	17.1%	25	-0.06	25
С	29	Louisiana	-0.29	47.0		32	-5.7%	49	-0.88	43	80.1%	10	263.9	16	21.8%	45	-0.30	34
с	30	Oregon	-0.37	45.8	2.9%	34	-2.1%	23	0.09	27	20.2%	49	178.5	4	12.1%	10	1.31	6
D	31	Wisconsin	-0.61	42.4	2.2%	16	-4.5%	44	-0.28	35	46.5%	36	277.3	23	14.4%	16	0.27	18
D	32	Ohio	-0.62	42.3	2.5%	26	-3.7%	36	-0.21	34	58.3%	30	310.3	33	17.9%	30	-0.33	35
D	33	Alaska	-0.63	42.1	2.8%	31	-4.5%	45	-0.53	39	58.8%	29	238.0	11	21.3%	44	-0.05	24
D	34	Oklahoma	-0.63	42.1	2.6%	30	-3.9%	39	-0.33	36	70.8%	19	352.0	43	19.1%	35	-0.78	41
D	35	Colorado	-0.68	41.5	3.8%	40	-1.7%	17	-0.16	32	63.3%	26	359.7	46	17.2%	27	-0.66	39
D	36 37	Virginia	-0.78 -0.91	40.0	2.9%	35	-3.0%	30 8	-0.19 0.87	33	34.2%	44 25	234.5	10	15.2%	19 51	0.55	12 51
D	38	Arizona Delaware	-0.91	38.2	2.0%	33	-0.6%	48	-0.73	6 42	64.9% 45.9%	38	365.6 229.3	4/	30.8% 17.2%	28	0.41	14
D	39	Hawaii	-0.95	36.8	5.3%	49	-5.2%	48	-0.73	42	45.9%	- 36 - 46	126.5	1	17.2%	28	2.70	14
D	40	Michigan	-1.01	33.1	4.1%	49	-0.3%	41	-2.04	44	55.4%	32	276.5	21	17.9%	29	-0.04	23
D	40	Massachusetts	-1.44	30.7	4.8%	48	-3.8%	37	-1.15	46	44.9%	39	329.0	38	8.6%	4	0.39	15
D		Pennsylvania	-1.44	30.7		41	-3.8%	47	-1.15	45	50.7%		314.6	34	13.9%	15	0.01	21
D	43	Connecticut	-1.51	29.7	4.4%	45	-6.4%	51	-1.74	49	65.5%	23	308.7	32	14.7%	17	-0.01	22
D		Nevada	-1.57	29.7		23	-0.4%	10	0.58	12	37.3%	42	391.4	51	19.5%	39	-0.01	
D	45	Maryland	-1.64	20.0		37	-3.8%	38	-0.51	38	20.4%	48	249.6	12	13.1%	14		
F		Illinois	-2.28	18.8		46	-4.4%	43	-1.29	47	37.1%	43	283.9	24	16.5%	22	0.02	20
F	47	California	-2.51	15.5		40	-2.0%	21	-0.63	40	19.2%	50	270.4	18	18.8%	33	-0.07	27
F	<u> </u>	New Mexico	-2.61	14.2		38	-1.6%	15	0.00	29	34.0%	45	337.2	40	27.7%	50	-1.46	
F-	49	New York	-2.94	9.6		50	-4.4%	42	-1.63	48	55.1%	33	382.7	50	19.6%	40	-1.08	47
F-	50	District of Columbia	-3.30	4.3		20	-2.6%	29	0.17	25	5.8%	51	371.2	48	20.5%	42	-1.07	46
- F-		New Jersey	-3.61	0.0		51	-4.7%	46	-1.81	50	37.7%	41	379.5	49	17.1%	24	-0.82	42
	21	a new persey	-5.01	0.0	2.670		- 1 70	40	-1.01	50	27.770	-71	219.2	-12	17.170	27	-0.02	74

Economy

For our unemployment measure, we looked at the cumulative months of unemployment (total unemployed over the period divided by total labor force over the period) from April 2020 to December 2021 and for each state subtracted the period of the same measure from January 2019 to February 2020. That is the raw unemployment metric. Hawaii and Nevada came in dead last by far because of the overwhelming impact the global shutdown of tourism had on them, and energy-heavy states similarly had disproportionate unemployment rises with the collapse of global demand. Because we considered these industry factors independent of state performance, we adjusted for industry composition.

We used a regression model to perform the adjustment. Let *y*, denote a health or economic outcome in state *s* during the pandemic, such as excess mortality or the number of points that the pandemic-average unemployment rate exceeded the pre-pandemic average. Let *x*, denote a vector of industry composition (or health status) variables for state *s*, expressed as a deviation from the national average. In our baseline economic specification, the vector has two elements: the share of state employment mining (which includes energy) and the share in leisure and hospitality.

To adjust a pandemic outcome from the industry composition of its economy, we use the following multivariate linear regression equation.

$y_s = \alpha + x_s \beta + e_s$

where β is vector of coefficients, one coefficient for each of the share variables in x_s . Because the share variables and the regression residual have mean zero among the fifty states and DC, α is the national average outcome y. We interpret $x_s\beta$ as the part of the outcome explained by industry composition and $y_s - x_s\beta = \alpha + e_s$ as the outcome adjusted for industry (or health) composition. We estimate α and β using ordinary least squares in the pre-pandemic data for the fifty states and DC.

	Cumulative Unemployed- Months (April 2020 to	Cumulative Labor-Force- Months (April 2020 to			Cumulative Unemployed- Months (Jan	Cumulative Labor-Force- Months (Jan				
	December 2021)	December 2021)	%	Rank	2019 to Feb 2020)	2019 to Feb 2020)	%	Unemployment Increase	Rank	Adjusted Rank
51-state/DC avg	2021	2021	76	T MATTIN	2020]	2020)	10	2.8%	r stattis	TMITIN
Montana	519,349	11,334,786	4.6%	6	279,895	7,527,550	3.7%	0.9%	3	1
Nebraska	684,708	21,565,597	3.2%	1	438,828	14,568,139	3.0%	0.2%	1	2
South Dakota	371,212	9,830,736	3.8%	3	196,166	6,477,568	3.0%	0.7%	2	3
Mississippi	1,835,668	26,512,368	6.9%	33	990,364	17,912,646	5.5%	1.4%	6	4
Idaho	813,371	18,915,121	4.3%	4	347,296	12,328,543	2.8%	1.5%	8	5
Utah	1,270,917	34,697,052	3.7%	2	577,231	22,581,818	2.6%	1.1%	4	6
Kentucky	2,343,329	41,914,571	5.6%	22	1,212,260	28,985,144	4.2%	1.4%	7	7
Georgia	5,564,863	107,207,198	5.2%	18	2,549,643	72,228,222	3.5%	1.7%	11	8
Vermont	296,549	6,731,875	4.4%	5	114,967	4,819,482	2.4%	2.0%	20	9
Missouri	3,289,818	64,197,135	5.1%	14	1,451,324	43,117,532	3.4%	1.8%	12	10
Arkansas	1,460,931	28,465,665	5.1%	15	689,265	19,110,983	3.6%	1.5%	9	11
Arizona	5,274,686	75,653,308	7.0%	34	2,401,553	49,648,985	4.8%	2.1%	21	12
Alabama	2,246,616	46,752,547	4.8%	9	946,744	31,309,443	3.0%	1.8%	14	13
South Carolina	2,721,430	50,251,348	5.4%	20	925,253	33,140,289	2.8%	2.6%	29	14
Florida	14,104,973	215,662,399	6.5%	26	4,744,373	144,922,002	3.3%	3.3%	38	15
Wisconsin	3,342,508	64,797,812	5.2%	17	1,430,581	43,259,906	3.3%	1.9%	18	16
North Carolina	6,463,168	104,611,466	6.2%	25	2,661,861	71,114,585	3.7%	2.4%	27	17
Minnesota	3,239,061	64,103,315	5.1%	13	1,404,516	43,334,868	3.2%	1.8%	16	18
New Hampshire	792,261	15,801,211	5.0%	12	288,053	10,829,487	2.7%	2.4%	24	19
District of Columbia	646,986	8,559,591	7.6%	39	308,738	5,826,814	5.3%	2.3%	23	20
lowa	1,643,939	34,718,354	4.7%	8	693,383	24,272,058	2.9%	1.9%	19	21
Kansas	1,581,816	31,563,967	5.0%	11	664,839	20,922,600	3.2%	1.8%	17	22
Nevada	3,462,486	32,123,960	10.8%	51	853,380	22,003,346	3.9%	6.9%	50	23
Maine	761,937	14,172,318	5.4%	19	274,591	9,736,142	2.8%	2.6%	28	24
West Virginia	1,098,989	16,593,952	6.6%	28	563,110	11,184,292	5.0%	1.6%	10	25
Ohio	8,013,047	119,636,144	6.7%	30	3,516,166	81,836,637	4.3%	2.4%	25	26
Tennessee	4,280,242	69,334,335	6.2%	24	1,608,950	46,626,273	3.5%	2.7%	30	27
Wyoming	319,269	6,201,353	5.1%	16	160,919	4,148,976	3.9%	1.3%	5	28
Indiana	3,960,938	69,705,898	5.7%	23	1,546,954	47,315,290	3.3%	2.4%	26	29
Oklahoma	1,905,931	38,990,851	4.9%	10	805,433	25,846,665	3.1%	1.8%	13	30
Alaska	526,102	7,329,009	7.2%	37	266,820	4,945,890	5.4%	1.8%	15	31
Louisiana	3,206,051	43,267,999	7.4%	38	1,384,069	29,709,536	4.7%	2.8%	31	32
Delaware	703,988	10,215,894	6.9%	32	258,929	6,844,284	3.8%	3.1%	37	33
Oregon	2,982,265	44,915,297	6.6%	29	1,088,235	29,480,861	3.7%	2.9%	34	34
Virginia	4,941,467	89,844,440	5.5%	21	1,659,070	62,027,385	2.7%	2.8%	33	35
Washington	5,762,541	82,181,492	7.0%	35	2,303,713	54,854,093	4.2%	2.8%	32	36
Maryland	4,326,448	65,744,052	6.6%	27	1,600,648	45,817,553	3.5%	3.1%	36	37
New Mexico	1,598,991	19,865,163	8.0%	45	678,758	13,451,936	5.0%	3.0%	35	38
Rhode Island	904,548	11,351,772	8.0%	43	290,486	7,828,770	3.7%	4.3%	44	39
Colorado	4,538,910	66,411,807	6.8%	31	1,177,819	43,821,374	2.7%	4.1%	43	40
Pennsylvania	10,555,671	132,382,256	8.0%	44	4,134,996	90,995,406	4.5%	3.4%	39	41
Texas	21,110,486	295,627,511	7.1%	36	6,975,220	196,874,365	3.5%	3.6%	40	42
North Dakota	392,512	8,507,565	4.6%	7	137,596	5,721,861	2.4%	2.2%	22	43
Michigan	7,954,939	100,166,556	7.9%	42	2,809,991	69,222,941	4.1%	3.9%	41	44
Connecticut	2,948,906	38,243,558	7.7%	40	984,200	26,837,122	3.7%	4.0%	42	45
Illinois	11,182,770	130,613,869	8.6%	46	3,579,551	90,044,506	4.0%	4.6%	45	46
California	36,847,232	395,641,233	9.3%	49	11,356,271	271,197,610	4.2%	5.1%	47	47
Massachusetts	6,026,738	77,262,383	7.8%	41	1,617,409	52,898,679	3.1%	4.7%	46	48
Hawaii	1,426,810	13,549,518	10.5%	50	222,649	9,383,376	2.4%	8.2%	51	49
New York	17,976,927	194,395,130	9.2%	48	5,155,489	133,139,590	3.9%	5.4%	48	50
New Jersey	8,366,481	93,341,507	9.0%	47	2,227,198	63,430,519	3.5%	5.5%	49	51

In the unemployment rate change regression, the share of the state's employment in mining has a negative coefficient while the share in leisure and hospitality has a positive coefficient. The magnitude of the two coefficients were approximately equal.

The adjusted values answer the question "What if the state had the national-average industry composition, but everything else the same as it actually did?" just like a seasonal-adjustment answers the question "What if the month has the annual-average season but everything else the same as it actually did?" NV and HI have large negative

adjustments because their intensity in leisure and hospitality alone significantly elevated their pandemic unemployment rates. ND and WY have significant adjustments in the opposite direction.

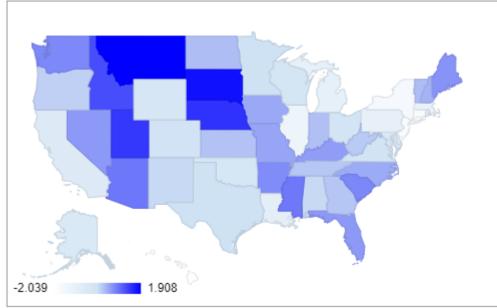
For our GDP by state component, we used the same regression method with the vector elements Mining, Oil and Gas, Accommodations and Food, and Arts and Entertainment. The estimated coefficients on all three shares were negative, especially for Accommodations and Food. NV and HI have large positive adjustments because their intensity in leisure and hospitality alone significantly reduced their real GDP.

				20	19 GDP Sha	ire		2019 GDP Share, dev		from avg	
	Pandemic GDP, relative to 2019-Q4	Rank	Adjusted Rank	Mining, Oil, Gas	Accommo dations and Food	Arts and Entertain ment	Ind-adj growth	Mining, Oil, Gas	Accommo dations and Food	Arts and Entertain ment	
United States	-2.36%			2.6%	2.8%	1.1%					
51-state/DC avg	-2.6%			3.5%	3.1%	0.9%		0.0%	0.0%	0.0%	
Alabama	-2.83%	30	34	1.3%	2.5%	0.4%	-3.6%	-2.2%	-0.6%	-0.6%	
Alaska	-7.05%	50	45	23.6%	2.4%	0.6%	-4.5%	20,1%	-0.8%	-0.4%	
Arizona	-0.38%	7	8	1.6%	3.3%	1.0%	-0.6%	-1.9%	0.1%	0.0%	
Arkansas	-0.58%	9	13	1.0%	2.7%	0.5%	-1.3%	-2.5%	-0.4%	-0.5%	
California	-1.34%	15	21	0.7%	2.7%	1.4%	-2.0%	-2.8%	-0.4%	0.5%	
Colorado	-2.18%	25	17	6.8%	3.1%	1.4%	-1.7%	3.3%	0.0%	0.5%	
Connecticut	-5.42%	45	51	0.1%	2.3%	0.9%	-8.4%	-3.4%	-0.8%	-0.1%	
Delaware	-4.02%	41	48	0.0%	2.2%	0.6%	-5.2%	-3.5%	-1.0%	-0.4%	
District of Columbia	-2.28%	27	29	0.0%	3.4%	0.9%	-2.6%	-3.5%	0.3%	0.0%	
Florida	-1.62%	17	14	0.2%	4.1%	1.6%	-1.5%	-3.3%	1.0%	0.7%	
Georgia	-2.74%	29	35	0.3%	2.5%	0.6%	-3.7%	-3.2%	-0.7%	-0.4%	
Hawaii	-9.80%	51	50	0.3%	9.8%	1.3%	-6.3%	-3.2%	6.6%	0.4%	
Idaho	0.55%	5	6	0.7%	2.9%	0.8%	-0.3%	-2.8%	-0.3%	-0.2%	
Illinois	-3.62%	38	43	0.3%	2.6%	1.2%	-4.4%	-3.2%	-0.5%	0.2%	
Indiana	-0.95%	12	20	0.3%	2.0%	1.0%	-2.0%	-3.2%	-0.9%	0.2%	
lowa	-0.95%	8	16	0.4%	2.1%	0.6%	-1.6%	-3.1%	-0.8%	-0.3%	
		14	25								
Kansas	-1.34%			1.2%	2.1%	0.5%	-2.4%	-2.3%	-1.1%	-0.5%	
Kentucky	-1.80%	20	26	1.2%	2.8%	0.5%	-2.4%	-2.3%	-0.3%	-0.4%	
Louisiana	-5.92%	46	49	6.4%	2.8%	0.9%	-5.7%	2.9%	-0.4%	0.0%	
Maine	-0.84%	10	9	0.1%	4.1%	1.0%	-0.8%	-3.4%	1.0%	0.1%	
Maryland	-3.04%	32	38	0.1%	2.7%	0.9%	-3.8%	-3.4%	-0.4%	0.0%	
Massachusetts	-3.05%	33	37	0.1%	2.8%	1.2%	-3.8%	-3.4%	-0.4%	0.2%	
Michigan	-3.44%	35	41	0.4%	2.6%	0.8%	-4.3%	-3.1%		-0.2%	
Minnesota	-2.57%	28	32	0.7%	2.2%	0.9%	-3.6%	-2.8%	-1.0%	-0.1%	
Mississippi	-1.89%	21	18	1.5%	3.8%	0.5%	-1.9%	-2.0%	0.6%	-0.5%	
Missouri	-1.71%	18	27	0.4%	2.8%	1.1%	-2.4%	-3.1%	-0.4%	0.2%	
Montana	0.07%	6	3	4.8%	3.5%	1.2%	0.5%	1.3%	0.4%	0.3%	
Nebraska	0.82%	4	7	0.2%	2.0%	0.5%	-0.4%	-3.3%	-1.2%	-0.4%	
Nevada	-8.47%	48	10	2.8%	12.1%	3.1%	-1.0%	-0.7%	8.9%	2.2%	
New Hampshire	-1.75%	19	22	0.2%	3.4%	1.7%	-2.0%	-3.3%	0.3%	0.7%	
New Jersey	-3.63%	39	46	0.1%	2.2%	1.0%	-4.7%	-3.4%	-0.9%	0.0%	
New Mexico	-3.08%	34	15	13.2%	3.2%	0.7%	-1.6%	9.7%	0.1%	-0.2%	
New York	-3.68%	40	42	0.1%	2.7%	1.7%	-4.4%	-3.4%	-0.4%	0.8%	
North Carolina	-1.15%	13	19	0.2%	2.7%	0.8%	-1.9%	-3.3%	-0.4%	-0.1%	
North Dakota	-2.11%	22	5	22.4%	2.1%	0.3%	0.1%	18.9%	-1.0%	-0.6%	
Ohio	-2.86%	31	36	1.3%	2.3%	1.0%	-3.7%	-2.1%	-0.8%	0.1%	
Oklahoma	-8.33%	47	39	22.5%	2.3%	0.6%	-3.9%	19.0%	-0.8%	-0.4%	
Oregon	-1.57%	16	23	0.1%	3.1%	0.9%	-2.1%	-3.4%		0.0%	
Pennsylvania	-4.03%	43	47	2.2%	2.2%	1.1%	-4.8%	-1.3%		0.2%	
Rhode Island	-3.53%	37	33	0.0%	3.9%	1.0%	-3.6%	-3.5%		0.0%	
South Carolina	-0.88%	11	11	0.3%	3.7%	0.7%	-1.0%	-3.2%		-0.3%	
South Dakota	1.49%	1	1	0.3%	2.8%	0.6%	0.8%	-3.2%		-0.3%	
Tennessee	-2.13%	23	24	0.3%	3.5%	2.0%	-2.3%	-3.2%		1.1%	
Texas	-2.13%	23	12	14.7%	2.3%	0.7%	-1.1%	11.2%		-0.3%	
Utah	1.15%	20	2	2.7%	2.5%	0.9%	0.6%	-0.8%		-0.3%	
		42									
Vermont	-4.02%	42	31 30	0.4% 0.4%	5.1% 2.5%	1.1%	-3.3% -3.0%	-3.1%		0.1%	
Virginia								-3.1%			
Washington	1.20%	2	4	0.1%	2.5%	0.8%	0.3%	-3.4%		-0.2%	
West Virginia	-4.29%	44	28	18.7%	2.9%	0.5%	-2.5%	13.2%		-0.4%	
Wisconsin	-3.47%	36	44	0.3%	2.3%	0.8%	-4.5%	-3.2%		-0.1%	
Wyoming	-6.93%	49	40	22.7%	2.9%	0.6%	-4.2%	19.2%	-0.3%	-0.3%	

This table and map show the combined economic performance scores of the states in the pandemic period.

	Unemploy ment			GDP			Economy	
	(Industry-		Z Score	(Industry-			Average	
States/DC	Adjusted)	Rank	(inverted)	Adjusted)	Rank	Z Score	(Z Scores)	
Montana	0.2%	1	2.09	0.5%	3	1.72	1.91	1
South Dakota	0.7%	3	1.66		1	1.87	1.77	2
Nebraska	0.6%	2	1.74	-0.4%	7	1.21	1.47	3
Utah	1.5%	6	1.05	0.6%	2	1.78		4
Idaho	1.5%	5	1.06	-0.1%	6	1.41	1.23	5
Arizona	2.0%	12	0.63	-0.6%	8	0.40	0.87	0 7
Mississippi South Carolina	1.1%	4	0.58	-1.9% -1.0%	18	0.40	0.86	8
	3.0%	36	-0.18	-1.0%	4	1.60	0.73	8 9
Washington Arkansas	2.0%	30	-0.18	-1.3%	13	0.74	0.71	10
Maine	2.5%	24	0.04	-1.5%	9	1.01	0.69	10
Nevada	2.4%	24	0.25	-0.8%	10	0.87	0.65	12
Florida	2.1%	15	0.28	-1.5%	10	0.61	0.58	12
Kentucky	1.6%	15	0.96	-1.5%	26	0.01	0.57	15
Missouri	1.7%	10	0.90	-2.4%	20	0.12	0.34	15
Towa	2.4%	21	0.83	-1.6%	16	0.54	0.47	16
North Carolina	2.2%	17	0.33		10	0.34	0.44	10
New Hampshire	2.3%	19	0.38	-2.0%	22	0.31	0.42	18
Vermont	1.7%	9	0.90	-3.3%	31	-0.39	0.35	10
North Dakota	4.0%	43	-1.00	0.1%	5	1.49	0.25	20
Indiana	2.6%	29	0.11	-2.0%	20	0.35	0.23	20
Kansas	2.4%	23	0.31	-2.4%	25	0.12	0.23	22
Georgia	1.6%	8	0.96	-3.7%	35	-0.60	0.18	23
Tennessee	2.5%	27	0.19	-2.3%	24	0.16	0.17	24
District of Columbia	2.3%	20	0.37	-2.6%	29	-0.03	0.17	25
West Virginia	2.5%	25	0.23	-2.5%	28	0.06	0.15	26
Oregon	2.9%	34	-0.09	-2.1%	23	0.27	0.09	27
Alabama	2.0%	13	0.58	-3.6%	34	-0.56		28
New Mexico	3.5%	38	-0.56	-1.6%	15	0.57	0.00	29
Minnesota	2.3%	18	0.41	-3.6%	32	-0.56	-0.07	30
Texas	4.0%	42	-0.99	-1.1%	12	0.84	-0.08	31
Colorado	3.8%	40	-0.83	-1.7%	17	0.52	-0.16	32
Virginia	2.9%	35	-0.14	-3.0%	30	-0.23	-0.19	33
Ohio	2.5%	26	0.19	-3.7%	36	-0.62	-0.21	34
Wisconsin	2.2%	16	0.48	-4.5%	44	-1.04	-0.28	35
Oklahoma	2.6%	30	0.10	-3.9%	39	-0.76	-0.33	36
Wyoming	2.6%	28	0.17	-4.2%	40	-0.89	-0.36	37
Maryland	3.2%	37	-0.32	-3.8%	38	-0.69	-0.51	38
Alaska	2.8%	31	0.00	-4.5%	45	-1.06	-0.53	39
California	4.8%	47	-1.60	-2.0%	21	0.34	-0.63	40
Rhode Island	3.8%	39	-0.81	-3.6%	33	-0.56	-0.68	41
Delaware	2.8%	33	-0.03	-5.2%	48	-1.44	-0.73	42
Louisiana	2.8%	32	-0.02	-5.7%	49	-1.73	-0.88	43
Michigan	4.1%	44	-1.10	-4.3%	41	-0.94	-1.02	44
Pennsylvania	3.9%	41	-0.88	-4.8%	47	-1.22	-1.05	45
Massachusetts	4.8%	48	-1.64	-3.8%	37	-0.67		
Illinois	4.7%	46	-1.56	-4.4%	43	-1.01	-1.29	47
New York	5.6%	50	-2.27	-4.4%	42	-1.00		
Connecticut	4.4%	45	-1.33		51	-2.15	-1.74	49
New Jersey	5.8%	51	-2.44		46	-1.17		
Hawaii	5.3%	49	-2.02		50	-2.06		_

State Pandemic Economic Performance Index



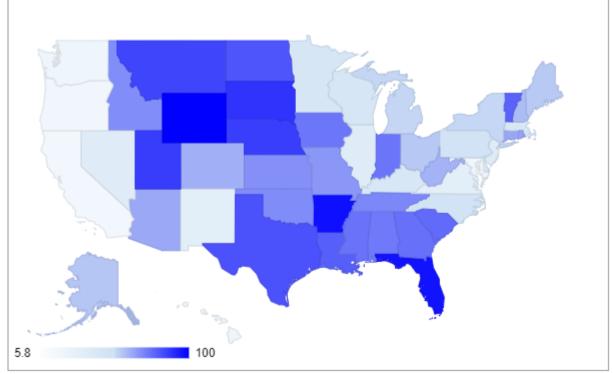
Source: Committee to Unleash Prosperity

Education

School closures may ultimately prove to be the largest policy error of the pandemic era in both economic and mortality terms. One study found that school closures at the end of the previous 2019-2020 school year are associated with 13.8 million years of life lost. An NIH analysis found that life expectancy for high school graduates is 4 to 6 years longer than high school dropouts. The OECD estimates that learning losses from pandemic era school closures could cause a 3% decline in lifetime earnings, and that a loss of just one third of a year of learning has a long-term economic impact of \$14 trillion.

Unlike mortality or economic outcomes, closing public schools was entirely under the control of policymakers. Almost all private schools were open.

This ranking and map from the tracking company Burbio show the cumulative share of in-person instruction in each state, with part-time hybrid schedules counting at half weight.



Cumulative In-Person Education %, 2020-21 School Year

Source: Burbio

Cum	ulative In-Person E	ducation %
Rank	State	Average
1	Wyoming	100.0
2	Arkansas	96.8
3	Florida	96.2
4	South Dakota	89.3
5	Utah	87.3
6	Nebraska	87.0
7	Montana	85.7
8	Texas	83.0
9	North Dakota	82.2
10	Louisiana	80.1
11	Vermont	79.5
	South Carolina	77.6
	Georgia	76.7
	Mississippi	76.2
	Indiana	75.6
	Iowa	75.4
	Alabama	74.8
	Tennessee	71.7
	Oklahoma	70.8
	Idaho	70.6
	Kansas	69.9
	Missouri	68.6
	Connecticut	65.5
	Rhode Island	65.4
	Arizona	64.9
	Colorado	63.3
	West Virginia	62.7
	New Hampshire	60.9
	Alaska	58.8
	Ohio	58.3
	Maine	58.1
	Michigan	55.4
	New York	55.1
	North Carolina	50.8
	Pennsylvania	50.8
	Wisconsin	46.5
	Minnesota	46.0
	Delaware	45.9
	Kentucky	43.9
	Massachusetts	44.9
	New Jersey	37.7
		37.3
	Nevada	37.1
	Illinois Virginio	34.2
	Virginia New Merrico	
	New Mexico Henreii	34.0 22.5
	Hawaii	
	Washington	22.3 20.4
	Maryland	
	Oregon	20.2
	California District of Columbia	19.2
51	District of Columbia	5.8

Source: Burbio

<u>Mortality</u>

There is no clear pattern in which states had high and low mortality, although we note one major study from Rand Corporation researchers found that lockdowns *increased* all-cause mortality to a statistically significant extent.

Whether or not political leaders can be considered responsible for mortality outcomes is therefore unclear, although advocates of a "focused protection" strategy have suggested that sheltering the high-risk could reduce overall mortality – an approach adopted by Florida.

Because COVID infection mortality risk is extremely age-related -- 8700 times higher in age 85+ than in 5 to 17, according to the CDC – we applied an age-adjustment to the number of observed deaths in each age group to bring the numbers in line with a standard U.S. population. Because CDC suppresses totals of less than 10, we combined ages less than 35, but because there are few deaths in that age range it should not affect the accuracy of the adjustment.

States Ranked (Low to High), COVID-19-Associated Death Rates Reported to CDC, Age-Adjust	ed
Updated: March 9, 2022	

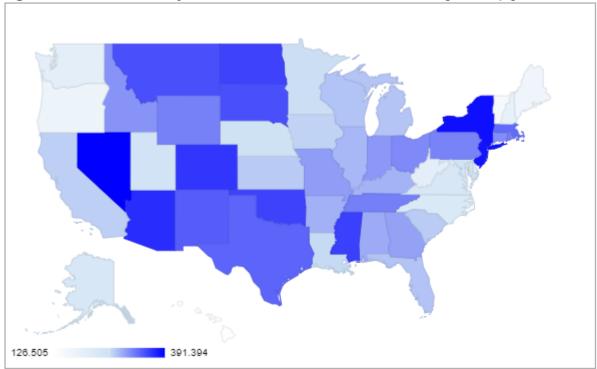
	Death	opuutou.	March 9,	2022							A
Rank Raw	Rank Age- adjusted		Per 100K 0-34	Per 100K 35-44	Per 100K 45-54	Per 100K 55-64	Per 100K 65-74	Per 100K 75-84	Per 100K 85 +	Raw Total Per 100K	Age-adjusted COVID deaths/100K
11000		Vermont	5.1		38.3	56.6		439.6			81.7
2		Hawaii	17.1	36.8	69.8			439.0			87.9
7		Maine	12.3		66.3			800.9			144.7
5			12.3		84.6	130.7		771.4	1		144.7
5		Oregon			47.3	180.0		896.5			150.2
		New Hampshire	8.3								
4		Washington	14.4		82.4	168.7		811.3			163.5
3		Utah	19.6		117.7	232.8		1,030.2	2,641.5		211.3
6		Alaska	26.5		133.0			1,103.4	2,384.5		216.3
10		Minnesota	13.8		82.5			1,202.0	3,627.8		218.7
9		Virginia	16.1	35.5	97.8	229.6		1,168.1	3,281.5		228.1
15		Wisconsin	16.3		105.0	202.8		1,272.4			235.9
18		Massachusetts	10.6		65.9			1,379.3	4,574.1	258.3	245.6
14		Nebraska	18.6		119.3	240.8		1,334.5	3,485.8		250.4
16		North Carolina	23.3		132.3	289.9		1,265.2			255.6
12		California	25.4		148.8			1,221.3			256.1
11		Colorado	18.7	39.8	121.7	248.0		1,360.6			256.4
17		Maryland	21.3		119.6	254.8		1,365.2	3,517.8		258.2
22		Delaware	18.9		127.8		528.4	1,361.7	3,780.8		258.7
28		Florida	35.7	78.4	173.6	338.3	596.5	1,191.2	2,756.5		265.1
26		Connecticut	14.7	33.6	84.6			1,418.7	4,622.7		265.8
20		Illinois	21.1	47.3	120.6			1,405.3	3,705.4		270.2
21	22	Wyoming	22.5	45.0	128.3	296.2	593.9	1,437.1	3,622.7		273.4
24	23	Iowa	16.5	41.0	112.4	258.6	555.7	1,496.1	4,238.4	293.2	275.0
19	24	Idaho	16.9	45.3	142.1	283.0	610.9	1,498.2	4,188.9	263.6	287.1
30		Montana	24.1	62.1	152.9	315.3	624.4	1,539.2	3,744.8		
36		Rhode Island	13.1	30.0	88.7	227.9	626.3	1,600.0		331.6	297.8
29	27	Michigan	24.2	58.7	159.4	315.7	686.2	1,551.1	3,762.2		299.9
25	28	Kansas	22.4	57.5	155.7	310.6	652.1	1,595.8	3,935.1	295.5	300.2
41	29	West Virginia	26.5	67.1	186.0	345.6	723.3	1,552.0	3,393.7	346.0	305.4
42	30	Pennsylvania	19.6	47.2	133.9	296.6	679.0	1,637.5	4,581.0	350.4	310.9
13	31	District of Columbia	26.8	58.4	220.1	500.0	874.8	1,319.9	2,449.1	239.2	312.7
31	32	Missouri	25.4	61.9	160.9	347.1	713.2	1,610.8	3,999.2	322.2	315.5
34	33	South Dakota	21.6	48.9	154.7	286.6	681.6	1,721.9	4,809.2	329.6	322.4
33	34	South Carolina	32.4	79.2	185.7	375.3	750.5	1,590.8	3,741.5	328.0	325.0
35	35	North Dakota	21.2	54.8	164.6	328.1	712.1	1,842.2	4,755.0	331.0	337.4
23	36	Georgia	34.1	79.7	184.2	401.5	813.0	1,733.1	3,639.1	289.6	340.2
45	37		23.3	57.1	145.9	339.3	773.7	1,883.1	4,658.3	355.6	344.0
43	38	New Jersey	25.0		149.7	351.0		1,816.1	4,780.8		344.7
47		New York	24.1	56.6	155.5	361.9		1,832.4	4,556.8		346.3
39	40	Kentucky	27.7	69.3	178.6	391.1	810.0	1,821.0	4,250.3		350.4
32	40		36.1	83.3	211.5			1,766.4	3,598.1	326.8	350.4
40	42	New Mexico	62.6		295.3	453.5		1,413.7	3,298.0		352.0
38	43	Indiana	21.9		149.5	352.3	779.4	1,915.7	4,917.3		352.3
46		Arizona	44.3		242.4	468.4		1,623.3			353.2
44	45		35.5		199.4	427.0		1,750.9	3,983.3		355.8
37		Nevada	37.3		239.5	443.2	873.4	1,793.5	3,743.0		365.9
48		Tennessee	37.6		229.5			1.861.5			376.1
49	48		41.1	104.0	245.0	482.1	918.3	1,793.2	3,731.5		379.6
27		Texas	40.8		239.9	485.5		1,877.5			
50		Oklahoma	36.1	90.3	245.1	403.3	955.2	1,992.7	4,467.4		402.9
51		Mississippi	50.7	125.4	276.6			2,176.1	4,567.2		450.2
51	51	United States	55.1	123.4	270.0	001.4	1,007.1	2,110.1	4,007.2	290.5	
		onneu states								230.3	250.

Note: North Carolina appears to report deaths substantially more slowly than other states, and can therefore be expected to move down these rankings as data becomes more complete.

To further adjust these numbers for substantial differences in metabolic health across states, we applied the same regression methodology we used in the economic section to the age-standardized rates above using CDC-reported prevalence of obesity and diabetes, the conditions most strongly correlated with COVID-associated deaths.

The adjusted values answer the question "What if every state had the national-average prevalence of diabetes and obesity?" The estimated coefficients on obesity and diabetes prevalence were both positive, although the diabetes coefficient was almost triple the obesity coefficient. The adjustments were negative in WV and most of the southern states.

NV, NY, NJ, and DC were the four states with the highest metabolic-adjusted mortality, even though none is in the top four without the adjustment. The six states with lowest mortality – HI, VT, ME, OR, NH, and WA – are the same regardless of metabolic adjustment.



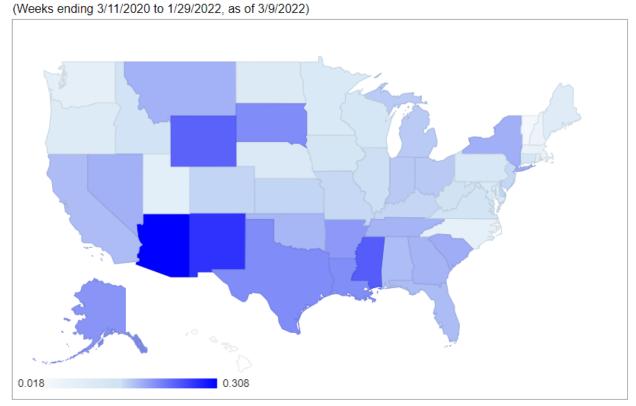
Age and Metabolic Health Adjusted COVID-Associated Deaths Per 100K Population (Updated March 9)

Source: Committee to Unleash Prosperity

State deaths/100K Deaths/100K Deaths/100K Text Network Hawaii 87.9 24.5 0.3 7.6 0.4 12.5 1 Vermont 81.7 26.3 7.6 5.8 2.2 11.5 14.3 3 Oregon 1155.2 28.1 10 4.4 0.9 122.5 5 Washington 113.5 28 9 4.1 0.9 22.81 5 Vashington 133.5 28 9 4.1 1.0.9 22.93 .9 Vashington 133.5 28 9 4.1 1.0.9 22.93 .9 Delaware 28.5 1.0.1 1.0.4 20.2 .2 .9 .11 22.81 .9 .11 22.9 .9 .11 2.3 .9 .11 2.2 .9 .11 .11 .2 .12 .12 .12 .12 .12 .12 .12 .12 .12 .12 .1		Age-adjusted COVID			Obesity Deviation	Deviation		
Vermont 817 26.3 7.6 5.8 -2.3 155.5 2 Maine 1447 31 8.7 -1.1 -1.2 171.6 3 Oregon 156.2 28.1 10 4.0 0.01 178.5 44 New Hampshire 158.9 29.9 8.7 -2.2 -1.2 192.5 5 Washington 163.5 28 9 -4.1 -0.9 203.4 -6 West Virgina 305.4 39.1 13.4 -7.0 3.5 -2.29.3 .99 Virgina 228.1 31.2 9.5 0.1 -0.4 234.5 10 Alaxia 2216.3 31.9 8.7 -3.5 -1.2 257.9 14 Maryland 286.2 31 10.8 -1.1 2.05 2.12 15 Louisian 350.4 38.1 12.9 6.0 3.0 267.1 122 Uhan 271.5 36.6	State	deaths/100K	Obesity prev	Diabetes	from Mean	from Mean	deaths/100K	Rank
Maine1447318.71.11.217183Oregon156228.110-4.00.1178.54New Hamgshre158.929.98.72.21.2125.55Washington113.52.89-4.10.9203.46West Virginia305.439.113.47.03.5204.47Notth Carolina255.633.6111.51.1228.18Delavare228.736.510.14.40.2229.510Alaska216.331.98.7-0.2-1.2238.011Maryland252.23110.8-1.10.9249.5120Alaska216.331.98.7-0.2-1.2238.011Minesola250.4348.81.9-1.1257.914Minesola218.730.77.9-1.4-2.0261.215Lousiana300.438.11.9-1.1267.91617Calfornia256.130.310.43.20.5271.413South Carolina32536.211.64.11.7271.919Kansas300.235.310.43.70.6277.122284South Carolina235.923.27.70.92.82.91.12.72.92.8South Carolina352.336.	Hawaii	87.9	24.5	10.3	-7.6	0.4	126.5	
Oregon 156.2 28.1 10 4.0 0.1 178.5 4 New Hampshire 158.9 29.9 8.7 -2.2 -1.2 192.5 5 Washington 103.5 28.9 9.4 1.0.9 203.4 6 West Wighia 305.4 39.1 13.4 7.0 3.5 204.4 7 North Carolina 255.6 33.6 1.0 4.4 0.2 229.3 9 Virginia 228.1 32.2 9.5 0.01 -0.4 234.5 10 Alaska 216.3 31.9 8.7 -0.2 -1.2 282.7 13 Maryland 250.2 31 0.8 1.9 -1.1 257.9 14 Merbaska 250.4 38.8 19 -1.1 257.9 14 Minnesola 216.7 30.7 7.9 -1.4 -2.0 261.2 15 Louisiana 350.4 30.1 9 <	Vermont	81.7	26.3	7.6	-5.8	-2.3	155.5	
New Hampshire 158.9 29.9 8.7 -2.2 -1.2 192.5 5 Washington 163.5 28 9 -4.1 -0.9 203.4 6 West Virginia 305.6 33.6 111 1.5 1.1 228.1 32 Virginia 225.1 32.2 9.5 0.1 0.44 29.3 9 Virginia 225.1 32.2 9.5 0.1 0.4 29.3 10 Alaska 216.3 31.9 8.7 -0.2 -1.2 23.8 11 Mayland 255.2 31 0.8 1.1 9 9.4 12 Uah 211.3 26.6 8.7 -3.5 -1.2 25.7 13 Netraska 250.4 38.1 12.9 6.0 3.0 263.9 16 California 255.1 36.2 10.4 3.2 0.5 27.2 20.1 Kansas 300.2 35.3	Maine	144.7	31	8.7	-1.1	-1.2	171.8	
Washington 163.5 28 9 4.1 0.9 203.4 6 West Vignia 305.4 39.1 13.4 7.0 3.5 204.4 7 Noth Carolina 255.6 33.6 11 1.5 1.1 228.1 8 Delaware 255.7 36.5 10.1 4.4 0.2 229.3 9 Vignia 226.1 32.2 9.5 0.1 -0.4 234.5 10 Mayland 255.2 31 10.8 -1.1 0.9 249.6 12 Uah 211.3 26.6 8.7 -5.5 -1.2 25.7 13 Nebraska 210.7 30.7 7.9 -1.4 -2.0 261.2 15 Louisiana 350.4 38.1 12.9 6.0 30.0 289.9 16 South Carolina 255.1 30.3 27.1 22 20.1 Minsa 30.0 27.1 22 South Carol	Oregon	156.2	28.1	10	-4.0	0.1	178.5	4
West Virginia 305.4 39.1 13.4 7.0 3.5 204.4 7 North Carolina 255.6 33.6 11 1.5 1.1 228.1 3 Delaware 255.7 35.5 10.1 4.4 0.2 229.3 9 Virginia 228.1 32.2 9.5 0.1 -0.4 234.5 100 Alaska 216.3 31.9 6.7 -0.2 -1.2 236.0 11 Maryland 255.2 31 10.8 -1.1 0.9 249.6 121 Utah 211.3 28.6 8.7 -3.5 -1.2 252.7 133 Nebraska 250.4 38.1 12.9 6.0 3.0 263.9 166 Iowa 275 35.5 10.4 3.2 0.2 270.4 18 South Carolina 300.2 35.2 10.2 3.1 0.3 275.5 221 Kansa 300.2 3	New Hampshire	158.9	29.9	8.7	-2.2	-1.2	192.5	
North Carolina 255.6 33.6 11 1.5 1.1 228.1 82 Verginia 228.1 32.2 9.5 0.1 0.4 23.3 9 Alaska 216.3 31.9 8.7 0.2 -1.2 238.0 11 Maryland 258.2 31 10.8 -1.1 0.9 248.6 12 Nebraska 250.4 34 8.8 1.9 -1.1 257.6 14 Minnesota 218.7 30.7 7.9 -1.4 -2.0 261.2 155 Iousiana 300.4 38.1 12.9 60 30 263.1 16 California 255.0 2.0.5 8.8 4.4 -1.1 267.6 17 California 255.1 30.2 4.0.5 3.7 0.6 277.1 22 Michigan 299.9 35.2 10.2 3.1 0.3 29.2 28.9 Kentuky 360.4 3	Washington	163.5	28	9	-4.1	-0.9	203.4	6
Delaware 258.7 36.5 10.1 4.4 0.2 229.3 9 Virginia 228.1 32.2 9.5 0.1 0.4 234.5 10 Maryland 258.2 31 10.8 -1.1 0.9 249.6 12 Utah 211.3 26.6 8.7 -3.5 -1.2 252.7 13 Nebraska 250.4 34 8.8 1.9 -1.1 259.7 14 Minnesota 218.7 30.7 7.9 -1.4 -2.0 261.2 15 Louisina 350.4 38.1 12.9 6.0 3.0 265.7 177 Caifornia 256.1 30.3 9.7 -1.8 -0.2 270.4 18 South Carolina 259.9 35.2 10.2 3.1 0.3 276.5 21 Kenkas 30.4 36.6 12.1 4.5 2.2 277.3 23 Miscoira 259.9 32.3	West Virginia	305.4	39.1	13.4	7.0	3.5	204.4	7
Virginia 228.1 32.2 9.5 0.1 -0.4 234.5 10 Alaska 216.3 31.9 8.7 -0.2 -1.2 233.0 111 Mayland 258.2 31 10.8 -1.1 0.9 249.6 12 Ubah 211.3 26.6 8.7 -3.5 -1.2 252.7 13 Nebraska 250.4 34. 8.8 1.9 -1.1 257.9 14 Lousiana 350.4 38.1 12.9 6.0 3.0 261.2 17 California 256.1 30.3 9.7 -1.8 -0.2 27.6 17 Kansas 300.2 35.3 10.4 3.2 0.5 27.7 22.0 Michigan 295.9 32.3 7.4 0.2 2.5 27.7 22.3 Michigan 295.9 32.3 7.4 0.2 2.5 27.7 2.3 Misconsin 235.9 32.3	North Carolina	255.6	33.6	11	1.5	1.1	228.1	8
Alaska216.331.98.7-0.2-1.1238.011Maryland258.23110.8-1.10.9249.612Nebraska250.4348.81.9-1.1257.914Minnesota218.730.77.9-1.4-2.0263.215Louisiana350.438.112.96.03.0263.916Iowa27536.58.84.4-1.1267.617California256.130.39.7-1.8-0.2270.418South Carolina302.535.210.43.20.5272.820Michigan299.935.210.23.10.3276.521Florida265.128.410.5-3.70.6277.122Wisconsin235.932.37.40.2-2.5277.323Wisconsin235.936.412.14.52.226.425Arkanasa355.836.412.44.32.5287.926Missouri315.53410.21.90.3299.229Idiana352.336.811.24.71.3302.430Georgia340.234.311.72.21.8296.728Missouri315.536.811.24.71.3302.430Georgia340.234.311.72.93.63	Delaware	258.7	36.5	10.1	4.4	0.2	229.3	9
Maryland 258.2 31 10.8 -1.1 0.9 249.6 12 Utah 2113 28.6 8.7 -3.5 -1.2 252.7 13 Nebraska 250.4 34 8.8 19 -1.1 257.9 14 Louisiana 350.4 38.1 12.9 6.0 3.0 263.9 16 Louisiana 350.4 38.1 12.9 6.0 3.0 263.9 16 Calfornia 255.1 36.5 8.8 4.4 -1.1 277.9 19 Kansas 300.2 35.2 10.4 3.2 0.5 221.8 20.6 277.4 19 Kansas 300.2 32.3 7.4 0.2 2.5 277.3 23 Wiscomin 255.9 32.3 7.4 0.2 -2.5 277.3 23 Mineita 27.0 36.6 12.1 4.5 2.2 286.4 2.5 287.9 26	Virginia	228.1	32.2	9.5	0.1	-0.4	234.5	10
Utah 211.3 28.6 8.7 -3.5 -1.2 252.7 13 Nebraska 250.4 34 8.8 1.9 -1.1 257.9 14 Minnesota 218.7 30.7 7.9 -1.4 -2.0 261.2 15 Lousiana 350.4 38.1 12.9 6.0 3.0 263.9 16 Calfornia 256.1 30.3 9.7 -1.8 -0.2 270.4 18 South Carolina 325 36.2 11.6 4.1 1.7 271.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 272.8 20 Michigan 295.9 32.3 7.4 0.2 -2.5 277.3 23 Wisconsin 235.9 36.4 12.4 4.3 2.2 286.4 22 286.4 22 286.4 29 1.2 7.7 22 286.4 20 20 1.3 302.4 30	Alaska	216.3	31.9	8.7	-0.2	-1.2	238.0	11
Nebraska 250.4 34 8.8 1.9 1.1 257.9 14 Minnesola 215.7 30.7 7.9 1.4 4.20 261.2 15 Louisiana 350.4 38.1 12.9 6.0 3.0 263.9 16 Iowa 275 36.5 8.4.4 4.11 267.6 17 Calfornia 225.1 30.3 9.7 -1.8 -0.2 270.4 18 South Carolina 325 36.2 11.6 4.1 1.7 217.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 27.8 20 Michigan 299.9 35.2 10.2 3.1 0.3 276.5 21 Florida 265.1 28.4 10.5 -3.7 0.6 227.1 22 Misconsin 235.4 36.6 12.1 4.5 2.2 286.4 25 Arkansa 355.8 36.4 12.4<	Maryland	258.2	31	10.8	-1.1	0.9	249.6	12
Minnesota 218.7 30.7 7.9 -1.4 -2.0 261.2 15 Louisiana 350.4 38.1 12.9 6.0 3.0 283.9 16 lowa 275 36.5 8.8 4.4 -1.1 267.6 17 California 225.1 30.2 36.2 11.6 4.1 1.7 271.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 272.8 20 Michigan 299.9 35.2 10.2 3.1 0.3 276.5 21 Florida 265.1 28.4 10.5 -3.7 0.6 277.1 22 Wisconsin 235.9 32.3 7.4 0.2 -2.5 277.3 23 Minois 270.2 32.4 9 0.3 0.9 22 286.4 Kentucky 355.8 36.6 12.1 4.5 2.2 286.4 28 1.1 27 6 <	Utah	211.3	28.6	8.7	-3.5	-1.2	252.7	13
Minnesota 218.7 30.7 7.9 -1.4 -2.0 261.2 15 Louisiana 350.4 38.1 12.9 6.0 3.0 283.9 16 lowa 275 36.5 8.8 4.4 -1.1 267.6 17 California 225.1 30.2 36.2 11.6 4.1 1.7 271.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 272.8 20 Michigan 299.9 35.2 10.2 3.1 0.3 276.5 21 Florida 265.1 28.4 10.5 -3.7 0.6 277.1 22 Wisconsin 235.9 32.3 7.4 0.2 -2.5 277.3 23 Minois 270.2 32.4 9 0.3 0.9 22 286.4 Kentucky 355.8 36.6 12.1 4.5 2.2 286.4 28 1.1 27 6 <	Nebraska	250.4	34	8.8	1.9	-1.1	257.9	14
Louisiana350.438.112.96.03.0263.916lova27536.58.84.4-1.1267.617California256.130.39.7-1.8-0.2270.418South Carolina32536.211.64.11.7271.919Kansas300.235.310.43.20.5272.820Michigan299.935.210.23.10.3276.521Florida265.128.410.5-3.70.6277.122Wisconsin225.932.37.40.2-2.5277.323Wisconsin270.232.490.3-0.9283.924Kentucky350.436.612.14.52.2286.425Arkansas355.836.412.76.92.8281.127Georgia340.234.311.72.21.8296.728Misouri315.53.410.21.90.3299.229Indiana352.336.811.24.71.3302.430Idaho267.131.19.2-1.0-0.7305.131Connectcut265.829.28.4-2.9-1.5308.732Vosing273.430.77.9-1.4-2.0315.935Tennessee376.135.612.23.52.3<	Minnesota		30.7					
Iova 275 36.5 8.8 4.4 -1.1 267.6 17 Calfornia 256.1 30.3 9.7 -1.8 -0.2 270.4 18 South Carolina 325 36.2 11.6 4.1 1.7 271.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 272.8 200 Michigan 299.9 35.2 10.2 3.1 0.3 276.5 21 Florida 265.1 28.4 10.5 -3.7 0.6 277.1 22 Misconsin 235.9 32.3 7.4 0.2 -2.5 277.3 23 Misconsin 235.9 32.3 7.4 0.2 2.25 287.9 26 Arkansas 355.8 36.4 12.4 4.3 2.5 287.9 26 Alabama 379.6 39 12.7 6.9 2.8 291.1 27 Georgia 340.2 34.1 <td>Louisiana</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Louisiana							
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South Carolina 325 36.2 11.6 4.1 1.7 271.9 19 Kansas 300.2 35.3 10.4 3.2 0.5 272.8 20 Michigan 299.9 35.2 10.2 3.1 0.3 276.5 21 Florida 265.1 28.4 10.5 -3.7 0.6 277.1 22 Wisconsin 223.5 32.3 7.4 0.2 2.5 277.3 23 Illinois 270.2 32.4 9 0.3 -0.9 283.9 24 Kentucky 350.4 36.6 12.1 4.5 2.2 286.4 25 Arkansa 375.6 38 12.7 6.9 2.8 291.1 27 Georgia 340.2 34.3 11.7 2.2 1.8 296.7 28 Missouri 315.5 34 10.2 1.9 0.3 299.2 29 Indian 352.3 36.8								
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Wisconsin 235.9 32.3 7.4 0.2 -2.5 277.3 23 Illinois 270.2 32.4 9 0.3 -0.9 283.9 24 Kentucky 350.4 36.6 12.1 4.5 2.2 286.4 25 Arkansas 355.8 36.4 12.4 4.3 2.5 287.9 26 Alabama 379.6 39 12.7 6.9 2.8 291.1 27 Georgia 340.2 34.3 11.7 2.2 1.8 296.7 28 Missouri 315.5 34 10.2 1.9 0.3 299.2 29 Indiana 352.3 36.8 11.2 4.7 1.3 302.4 30 31 Connecticut 265.8 29.2 8.4 -2.9 -1.5 308.7 32 Ohio 344 35.5 10.7 3.4 0.8 310.3 333 Pennsylvania 310.9								
Illinois 270.2 32.4 9 0.3 -0.9 283.9 24 Kentucky 350.4 36.6 12.1 4.5 2.2 286.4 25 Arkansas 355.8 36.4 12.4 4.3 2.5 287.9 26 Alabama 379.6 39 12.7 6.9 2.8 291.1 27 Georgia 340.2 34.3 11.7 2.2 1.8 296.7 28 Missouri 352.3 36.8 11.2 4.7 1.3 302.4 30 Idaho 287.1 31.1 9.2 -1.0 -0.7 305.1 31 Connecticut 265.8 29.2 8.4 -2.9 -1.5 308.7 32 Ohio 344 35.5 10.7 3.4 0.8 310.3 33 Pennsylvania 310.9 31.5 9.9 -0.6 0.0 314.6 34 Wyoming 273.4 30.7								
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Rhode Island297.830.19.4-2.0-0.5318.437Massachusetts245.624.47.7-7.7-2.2329.038Texas390.235.8123.72.1332.639New Mexico35230.911.2-1.21.3337.240Montana292.428.58.1-3.6-1.8344.641South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.44.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Wyoming	273.4						
Massachusetts245.624.47.7-7.7-2.2329.038Texas390.235.8123.72.1332.639New Mexico35230.911.2-1.21.3337.240Montana292.428.58.1-3.6-1.8344.641South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.1455Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Tennessee	376.1	35.6	12.2	3.5	2.3	316.3	36
Texas390.235.8123.72.1332.639New Mexico35230.911.2-1.21.3337.240Montana292.428.58.1-3.6-1.8344.641South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Rhode Island	297.8	30.1	9.4	-2.0	-0.5	318.4	37
New Mexico35230.911.2-1.21.3337.240Montana292.428.58.1-3.6-1.8344.641South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Massachusetts	245.6	24.4	7.7	-7.7	-2.2	329.0	38
Montana292.428.58.13.61.8344.641South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Texas	390.2	35.8	12	3.7	2.1	332.6	39
South Dakota322.433.28.21.1-1.7344.942Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	New Mexico	352	30.9	11.2	-1.2	1.3	337.2	40
Oklahoma402.936.411.44.31.5352.043North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Montana	292.4	28.5	8.1	-3.6	-1.8	344.6	41
North Dakota337.433.18.71.0-1.2352.044Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	South Dakota	322.4	33.2	8.2	1.1	-1.7	344.9	42
Mississippi450.239.712.97.63.0354.145Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Oklahoma	402.9	36.4	11.4	4.3	1.5	352.0	43
Colorado256.424.26.6-7.9-3.3359.746Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	North Dakota	337.4	33.1	8.7	1.0	-1.2	352.0	44
Arizona353.230.99.6-1.2-0.3365.647District of Columbia312.724.39.2-7.8-0.7371.248New Jersey344.727.79.4-4.4-0.5379.549New York346.326.39.8-5.8-0.1382.750Nevada365.928.79.6-3.4-0.3391.451	Mississippi	450.2	39.7	12.9	7.6	3.0	354.1	45
District of Columbia 312.7 24.3 9.2 -7.8 -0.7 371.2 48 New Jersey 344.7 27.7 9.4 -4.4 -0.5 379.5 49 New York 346.3 26.3 9.8 -5.8 -0.1 382.7 50 Nevada 365.9 28.7 9.6 -3.4 -0.3 391.4 51	Colorado	256.4	24.2	6.6	-7.9	-3.3	359.7	46
District of Columbia 312.7 24.3 9.2 -7.8 -0.7 371.2 48 New Jersey 344.7 27.7 9.4 -4.4 -0.5 379.5 49 New York 346.3 26.3 9.8 -5.8 -0.1 382.7 50 Nevada 365.9 28.7 9.6 -3.4 -0.3 391.4 51	Arizona	353.2	30.9	9.6	-1.2	-0.3	365.6	47
New Jersey 344.7 27.7 9.4 -4.4 -0.5 379.5 49 New York 346.3 26.3 9.8 -5.8 -0.1 382.7 50 Nevada 365.9 28.7 9.6 -3.4 -0.3 391.4 51	District of Columbia		24.3	9.2		-0.7		
New York 346.3 26.3 9.8 -5.8 -0.1 382.7 50 Nevada 365.9 28.7 9.6 -3.4 -0.3 391.4 51	New Jersey							
Nevada 365.9 28.7 9.6 -3.4 -0.3 391.4 51								
	AVG	286.2	32.1					

Our second mortality metric is all-cause excess death expressed as a percentage of expected death, which is widely considered the most accurate measure of pandemic impact because it is not subject to ascertainment bias. It also captures the near-term mortality effects of lockdown policies, such as higher drug and alcohol deaths, and differences in underlying health by being measured relative to the baseline.

We used figures provided by USMortality.com, which has full details publicly available. Its estimates are based on CDC data. To reduce the effect of differential reporting lag, we removed the most recent four weeks of incomplete data.



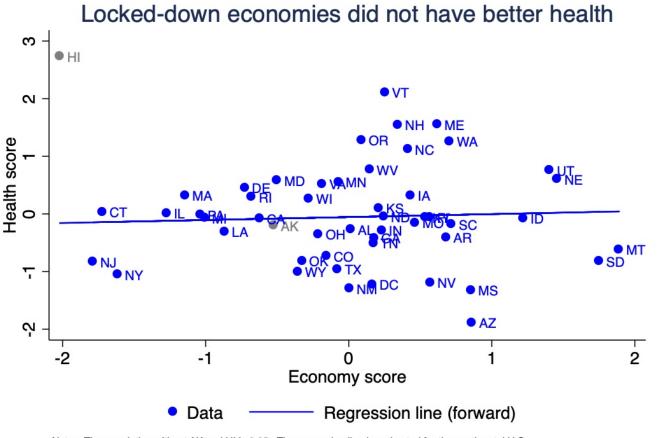
Ade-Adiusted Excess All-Cause Mortality as % of Baseline

Source: USMortality.com

Vermont 1.193 63.8 5.3% 2 New Hampshire 1.270 07.3 7.7% 3 Massachusetts 1.302 112.5 8.6% 4 North Carolina 1.508 143.5 9.5% 5 Washington 1.303 126.5 9.7% 6 Utah 1.308 146.2 10.6% 7 Rhode Island 1.302 138.7 10.7% 8 Maine 1.371 158.4 11.5% 9 Oregon 1.362 164.6 12.1% 10 North Dakota 1.352 167.5 12.4% 11 Netraska 1.301 174.6 12.8% 12 Minneota 1.250 163.0 13.0% 13 Maryland 1.300 177.9 13.1% 14 Pennsylvania 1.483 206.6 13.9% 15 Wasconsin 1.328 10.6% 17 17 Iowa	State	Baseline	Excess	%	Rank
New Hampshire 1,270 97.3 7.7% 3 Massechusetts 1,302 112.5 8.6% 4 North Carolina 1,508 143.5 9.5% 5 Washington 1,303 126.5 9.7% 6 Utah 1,388 146.2 10.6% 7 Rhode Island 1,302 138.7 10.7% 8 Maine 1,371 168.4 11.3% 9 Oregon 1,362 167.5 12.4% 10 Notrh Dakota 1,361 174.6 12.8% 12 Minesota 1,260 163.0 13.0% 13 Maryland 1,384 190.8 14.4% 16 Connecticut 1.228 180.5 14.7% 17 Iowa 1,375 204.8 14.9% 18 Virginia 1,325 205.6 15.2% 19 Idaho 1,341 209.8 15.6% 22 Missouri <td>Hawaii</td> <td>1,048</td> <td>19.4</td> <td>1.8%</td> <td>1</td>	Hawaii	1,048	19.4	1.8%	1
Massachusetts 1,302 112.5 8.6% 4 North Carolina 1,508 143.5 9.5% 5 Washington 1,303 126.5 9.7% 6 Utah 1,386 146.2 10.6% 7 Maine 1,371 158.4 11.5% 9 Oregon 1,362 164.6 12.1% 10 North Dakota 1,352 167.5 12.4% 11 Nebraska 1,361 174.6 12.8% 12 Minnesota 1,250 163.0 13.0% 13 Maryland 1,384 199.8 14.4% 16 Connecticut 1.228 180.5 14.7% 17 Iowa 1,375 204.8 14.9% 18 Virginia 1,322 205.6 15.2% 19 Idaho 1,314 209.8 15.5% 20 West Virginia 1,731 272.6 15.8% 21 Illinois 1,338 221.3 16.5% 22 Missouri 1,623	Vermont	1,193	63.8	5.3%	2
North Carolina 1,508 143.5 9.3% 5 Washington 1,303 126.5 9.7% 6 Utah 1,302 138.7 10.7% 8 Maine 1,371 158.4 11.5% 9 Oregon 1,362 164.6 12.1% 10 North Dakota 1,352 167.5 12.4% 11 Netraska 1,361 174.6 12.8% 12 Minnesota 1,250 163.0 13.0% 13 Maryland 1,360 177.9 13.1% 14 Pennsylvania 1,483 206.6 13.9% 15 Wisconsin 1,384 199.8 14.4% 16 Connecticut 1,228 180.5 14.7% 17 Iowa 1,375 204.8 14.9% 18 Virginia 1,352 205.6 15.2% 19 Idaho 1,341 209.8 15.6% 20 Wers tirginia<	New Hampshire	1,270	97.3	7.7%	3
Washington 1.303 126.5 9.7% 6 Utah 1.386 146.2 10.6% 7 Rhode Island 1.302 138.7 10.7% 8 Maine 1.371 158.4 11.5% 9 Oregon 1.362 164.6 12.1% 10 Noth Dakota 1.362 167.5 12.4% 11 Nebraska 1.361 174.6 12.8% 12 Minnesota 1.250 163.0 13.0% 13 Maryland 1.380 177.9 13.1% 14 Pennsytvania 1.483 206.6 13.9% 15 Wisconsin 1.384 199.8 14.4% 16 Connecticut 1.228 180.5 14.7% 17 Jowa 1.375 204.8 14.9% 18 Virginia 1.352 205.6 15.2% 19 Jaho 1.418 243.5 17.9% 23 New Usrsey		1,302	112.5	8.6%	4
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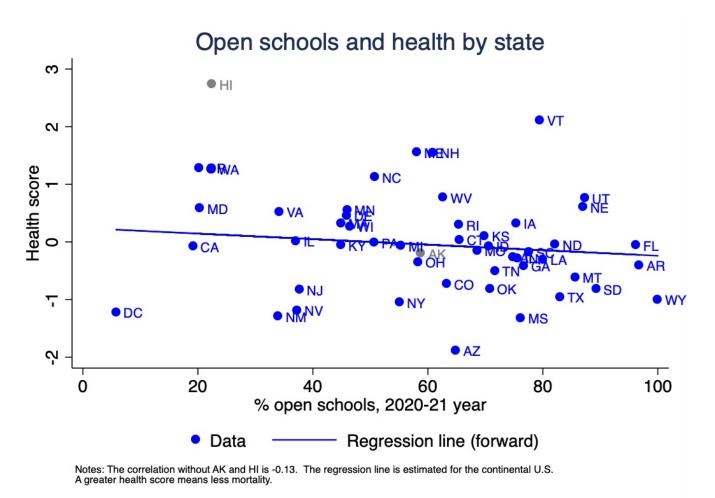
The Relationship Between Mortality, Education, and Economy Scores

Excluding the geographically unusual cases of Hawaii and Alaska to focus on the continental U.S., there is no apparent relationship between reduced economic activity during the pandemic and our composite mortality measure.

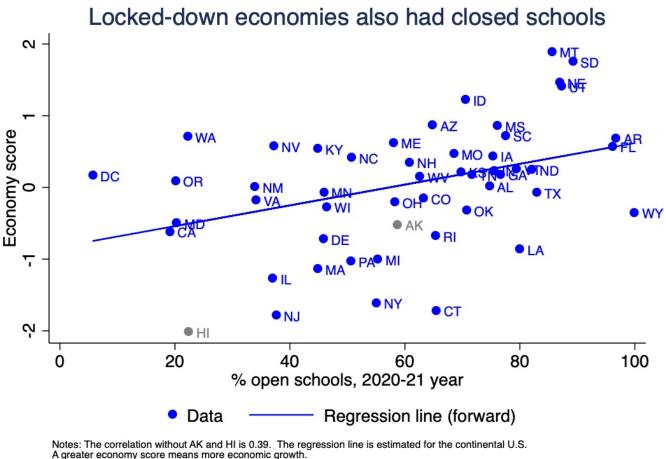


Notes: The correlation without AK and HI is 0.05. The regression line is estimated for the continental U.S. Greater health (economy) scores mean less mortality (more economic growth), respectively.

School closures did have a moderate correlation with our mortality measure, but based on the literature we do not believe this relationship was causal.



Unsurprisingly, there was a strong relationship between the states that had poor economic performance and closed schools - the lockdown states.



Concluding Comments

This study documents that the 50 states used very different approaches to confronting the Covid pandemic. At the beginning of the pandemic, governors and state legislators (and local officials) were forced to make policy decisions in the dark – as health experts were still figuring out the most effective strategies to stop the spread, the best treatments, and the efficacy of lockdowns and school closure policies.

The one piece of good news in this study is that states which maximized the individual freedoms of business owners, consumers, workers and parents – and allowed their citizens to make their own risk assessments without government mandates – had the best performance. It turns out that in most cases, citizens living in states with minimal government interventions – including Nebraska, Iowa, Florida, and others – were able to make wise health-conscious assessments without an abundance of government rules and mandates. These states came through the pandemic with the least amount of collective damage to their economies, the education of their children, and with health outcomes that were in most cases no worse than states that used more heavy-handed tactics to slow the spread. From the start, there was an obvious and hard to determine balancing act between health risks and allowing Americans to go about their lives in a productive way.

The states that tilted this balancing act toward more individual freedom and choice had far superior outcomes than states where politicians, government agencies and courts made these decisions for them. The government's most effective role during the height of the pandemic was racing to find vaccines and treatments and giving citizens the most accurate and up to date information about risks and how to keep themselves, their families, their employees, and their customers healthy.

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