Data sources

Factors motivating the timing of COVID-19 shelter in place orders by U.S. Governors

JK Corder, MS Mingus, & D Blinova

State-level data

Measure	**Source**
Total population	State population estimate from 2019 U.S. Census https://www.census.gov/newsroom/press-kits/2019/national-state-estimates.html
Elderly	Percentage of population age 65 or over in 2017 from 2014-2018 American Community Survey https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/2017/
Urban population	Percentage of population in urban areas from 2010 U.S. Census https://www.census.gov/programs-surveys/geography/guidance/geo-areas/urban-rural/2010-urban-rural.html
Lower income	Median household income in 2017 from 2014-2018 American Community Survey https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/2017/
Cardiovascular disease	Percentage age 18 or over with major cardiovascular disease, 2017 CDC https://www.cdc.gov/heartdisease/statistics_maps.htm
Diabetes	Age-adjusted percentage with diabetes, 2016 CDC https://gis.cdc.gov/grasp/diabetes/DiabetesAtlas.html
Hospital capacity	Number of Hospital Beds. 2020 data from the American Hospital Association

	https://metricvu.aha.org/dashboard/people-per-hospital-bed-type-by-region
FAA Core 30 airport	Yes/No https://aspmhelp.faa.gov/index/Core_30.html
Governor's political party	Republican or Democrat (Ballotpedia, post-2019 elections) https://ballotpedia.org/List_of_governors_of_the_American_states
State senate:	Republican or Democrat (Ballotpedia, post-2019 elections) https://ballotpedia.org/Partisan_composition_of_state_senates

Case data

Cases	COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (time_series_covid19_confirmed_US.csv) https://github.com/CSSEGISandData/COVID-19

How dependent variables are calculated

Time to 1:100,000 (*timetocase*): Number of days between January 5 (WHO announcement) and the date that confirmed cases first exceed 1 in 100,000 population. The number of confirmed cases relies on the Johns Hopkins University data. We calculated the confirmed case per capita and identified the date this number exceeded 1 in 100,000.
Min: 69 Max: 79 Median: 72.5

Time from 1:100,000 to implementation of an SIPO (*timetosipo*). Number of days between Time to 1:100,000 and the effective date of the state's first Shelter in Place Order (SIPO).
Min: 0 Max: 20 Median: 11
Missing: 8

Time from 1:100,000 to implementation of an SIPO with eight censored states treated as acting at the end of the observation period (May 30) (*timetosipo_uncen*). Number of days between Time to 1:100,000 and the effective date of the state's first Shelter in Place Order (SIPO) or May 30, whichever is earlier.
Min: 0 Max: 75 Median: 11.5