

## Oxford COVID-19 Government Response Tracker

### What's Changed?

28 April 2020

At the end of April 2020 OxCGRT has carried out a major expansion and refinement of the indicators we collect. This document details what has changed for the individual indicators as well as the Stringency Index.

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### Summary of indicators and changes

- Closures and Containment
  - C1 – school closing (prev S1) -amended coding
  - C2 – workplace closing (prev S2) - amended coding
  - C3 – cancel public events (prev S3) – recoded
  - C4 – restrictions on gathering size - new
  - C5 – close public transport (prev S4) - amended coding
  - C6 – “shelter-in-place” and home confinement orders - new
  - C7 – restrictions on internal movement (prev S6)
  - C8 – restrictions on international travel (prev S7) – amended coding
- Economic response
  - E1 – income support – new
  - E2 – debt/contract relief for households – new
  - E3 – fiscal measures (prev S8)
  - E4 – giving international support – new
- Public health / health system
  - H1 – public information campaign (prev S5) – amended coding
  - H2 – testing policy (prev S12)
  - H3 – contact tracing (prev S13)
  - H4 – emergency investment in healthcare (prev S10)
  - H5 – investment in Covid-19 vaccines (prev S11)
- Miscellaneous
  - M1 – Other responses - new

Detailed description of indicators and changes

Text in red denotes changes.

Old ID	Name	Old coding	New ID	New coding
S1	School closing	0 - No measures 1 - recommend closing 2 - Require closing No data - blank  0 - Targeted 1- General No data - blank	C1	0 - No measures 1 - recommend closing 2 - Require closing (only some levels or categories, eg just high school, or just public schools) 3 - Require closing all levels No data - blank  0 - Targeted 1- General No data - blank
S2	Workplace closing	0 - No measures 1 - recommend closing 2 require closing No data - blank  0 - Targeted 1- General No data - blank	C2	0 - No measures 1 - recommend closing (or work from home) 2 - require closing (or work from home) for some sectors or categories of workers 3 - require closing (or work from home) all-but-essential workplaces (eg grocery stores, doctors) No data - blank  0 - Targeted 1- General No data - blank
S3	Cancel public events	0- No measures 1 - Recommend cancelling 2 - Require cancelling	C3	0- No measures 1 - Recommend cancelling 2 - Require cancelling

		No data - blank 0 - Targeted 1- General No data - blank		No data - blank 0 - Targeted 1- General No data - blank
	Restrictions on gatherings		<b>C4</b>	0 - No restrictions 1 - Restrictions on very large gatherings (the limit is above 1000 people) 2 - Restrictions on gatherings between 100-1000 people 3 - Restrictions on gatherings between 10-100 people 4 - Restrictions on gatherings of less than 10 people No data - blank  0 - Targeted 1 - General No data - blank
<b>S4</b>	Close public transport	0 - No measures 1 - Recommend closing 2 - Require closing No data - blank  0 - Targeted 1- General No data - blank	<b>C5</b>	0 - No measures 1 - Recommend closing (or significantly reduce volume/route/means of transport available) 2 - Require closing (or prohibit most citizens from using it)  0 - Targeted 1- General No data - blank
<b>S5</b>	Public info campaigns	0 -No COVID-19 public information campaign 1 - COVID-19 public information campaign No data - blank	<b>H1</b>	0 -No COVID-19 public information campaign 1 - public officials urging caution about COVID-19

		<p>0 - Targeted  1- General  No data - blank</p>		<p><b>2 - coordinated</b> public information campaign (e.g. across traditional and social media)  No data - blank</p> <p>0 - Targeted  1- General  No data - blank</p>
	<b>Stay at home</b>		<b>C6</b>	<p><b>0 - No measures</b>  <b>1 - recommend not leaving house</b>  <b>2 - require not leaving house with exceptions for daily exercise, grocery shopping, and ‘essential’ trips</b>  <b>3 - Require not leaving house with minimal exceptions (e.g. allowed to leave only once every few days, or only one person can leave at a time, etc.)</b>  No data - blank</p> <p><b>0 - Targeted</b>  <b>1- General</b>  <b>No data – blank</b></p>
<b>S6</b>	Restrictions on internal movement	<p>0 - No measures  1 - recommend movement restriction  2 - restrict movement  No data - blank</p> <p>0 - Targeted  1- General  No data - blank</p>	<b>C7</b>	<p>0 - No measures  1 - Recommend closing (or significantly reduce volume/route/means of transport)  2 - Require closing (or prohibit most people from using it)</p> <p>0 - Targeted  1- General  No data - blank</p>

<b>S7</b>	International travel controls	0 - No measures 1 - Screening 2 - Quarantine arrivals from high-risk regions 3 - Ban on high-risk regions No data - blank	<b>C8</b>	0 - No measures 1 - Screening 2 - Quarantine arrivals from high-risk regions 3 - Ban on high-risk regions <b>4 - Total border closure</b> No data - blank
<b>S8</b>	Fiscal measures	Record monetary value USD of fiscal stimuli, including spending or tax cuts NOT included in S10 (see below)  -If none, enter 0  No data - blank  Please use the exchange rate of the date you are coding, not the current date. Exchange rate info <a href="#">here</a> .	<b>E3</b>	Unchanged
<b>S9</b>	Monetary measures	Value of interest rate		Drop
<b>S10</b>	Emergency investment in health care	-Record monetary value in USD of new short-term spending on health  -If none, enter 0  No data - blank  Please use the exchange rate of the date you are coding, not the current date. Exchange rate info <a href="#">here</a> .	<b>H4</b>	Unchanged
<b>S11</b>	Investment in vaccines	Record monetary value announced if additional to previously announced spending  -If none, enter 0	<b>H5</b>	Unchanged

		No data - blank		
		Please use the exchange rate of the date you are coding, not the current date. Exchange rate info <a href="#">here</a> .		
<b>S12</b>	<b>Testing policy</b>	<p>0 – No testing policy</p> <p>1 – Only those who both (a) have symptoms AND (b) meet specific criteria (eg key workers, admitted to hospital, came into contact with a known case, returned from overseas)</p> <p>2 – testing of anyone showing COVID-19 symptoms</p> <p>3 – open public testing (eg “drive through” testing available to asymptomatic people)</p> <p>No data</p> <p>Nb we are looking for policies about testing for having an infection (PCR tests) - not for policies about testing for immunity (antibody tests).</p>	<b>H2</b>	Unchanged
<b>S13</b>	<b>Contact tracing</b>	<p>0 - No contact tracing</p> <p>1 - Limited contact tracing - not done for all cases</p> <p>2 - Comprehensive contact tracing - done for all cases</p> <p>No data</p>	<b>H3</b>	Unchanged

## Stringency Index

Given these new indicators, we have revised our calculation of the stringency index as follows:

- There are now 9 contributing indicators, not 7
- We have standardized the additional “contribution” of a policy that applies in general way.

This formulation creates as close an approximation as possible to the former stringency index using the new indicators.

For continuity purposes, we also report a “legacy Stringency Index” that uses the old method.

<p>Former Stringency Index (previous calculation, 7 former indicators) No longer reported.</p>	$(S1+T/G)+(S2+T/G)+(S3+T/G)+(S4+T/G)$ $+(S5+T/G)+(S6+T/G)+(S7)$ <p>Rescale each indicator 0-100</p> <p>Take mean</p>
<p>New Stringency Index (new calculation, 9 new indicators)</p>	$(C1+wT/G)+(C2+wT/G)+(C3+wT/G)+(C4+wT/G)$ $+(C5+wT/G)+(C6+wT/G)+(C7+wT/G)+(C8) +$ $(H1+wT/G)$ <p>Rescale each indicator 0-100</p> <p>Take mean</p>
<p>Legacy Stringency Index (for continuity purposes; converts 9 new indicators to 7 former indicators)</p>	$(C1+wT/G)+(C2+wT/G)+MAX[(C3+wT/G), (C4+wT/G)]$ $+(C5+wT/G)+MAX[(C6+wT/G), (C7+wT/G)]+(C8) +$ $(H1+wT/G)$ <p>Rescale each indicator 0-100</p> <p>Take mean</p>