

# Uncertainty in times of COVID-19: Raw survey data

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Data from a survey of consumer expectations

## Description

Since April 24, 2020, Fabian Lange and Lars Vilhuber have been conducting the survey “Uncertainty in COVID-19 times”. The survey is a single-question survey focusing on people’s anticipation about social distancing rules and firm closures during the 2020 COVID-19 health crisis.

We believe that this information is not otherwise available in a reliable and timely fashion. The information should be usable by policy-makers and researchers, to be included in models of future developments of society and the economy.

## Citation

Please cite the data as

Lange, Fabian and Lars Vilhuber. 2020. “Uncertainty in times of COVID-19: Raw survey data [dataset].” Available at <https://labordynamicsinstitute.github.io/covid19-expectations-data> (accessed 2020-05-28).

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Lange, Fabian and Lars Vilhuber. 2020. “Codebook for: Uncertainty in times of COVID-19: Raw survey data.” Available at <https://labordynamicsinstitute.github.io/covid19-expectations-data> (accessed 2020-05-28).

We will be posting the data on Zenodo shortly. Data should be cite via DOI then.

## Available data

### Final files

Final files are uploaded after each wave is completed. Filenames in `final` tagged with geography, language, the question type, and date downloaded:

`survey-[geography]-[language]-[question]-[date].xlsx`

### List of files

Files
survey-canada-en-businesses-20200506.xlsx
survey-canada-en-businesses-20200508.xlsx
survey-canada-en-businesses-20200515.xlsx
survey-canada-en-businesses-20200522.xlsx
survey-canada-en-people-20200503.xlsx
survey-canada-en-people-20200508.xlsx
survey-canada-en-people-20200515.xlsx
survey-canada-en-people-20200522.xlsx
survey-canada-fr-businesses-20200426.xlsx
survey-canada-fr-people-20200426.xlsx
survey-ny-en-businesses-20200512.xlsx
survey-ny-en-people-20200513.xlsx
survey-qc-fr-businesses-20200429.xlsx
survey-qc-fr-businesses-20200503.xlsx
survey-qc-fr-businesses-20200510.xlsx
survey-qc-fr-businesses-20200517.xlsx
survey-qc-fr-businesses-20200524.xlsx
survey-qc-fr-people-20200429.xlsx
survey-qc-fr-people-20200503.xlsx
survey-qc-fr-people-20200510.xlsx
survey-qc-fr-people-20200517.xlsx
survey-qc-fr-people-20200524.xlsx
survey-us-en-businesses-20200429.xlsx
survey-us-en-businesses-20200503.xlsx
survey-us-en-businesses-20200511.xlsx
survey-us-en-businesses-20200517.xlsx
survey-us-en-businesses-20200524.xlsx
survey-us-en-people-20200429.xlsx
survey-us-en-people-20200504.xlsx

Files
survey-us-en-people-20200510.xlsx
survey-us-en-people-20200517.xlsx
survey-us-en-people-20200525.xlsx

## Normalized files

We provide a normalized Stata and R (Rds) file with all surveys, recoded consistently.

Files
expectations.csv
expectations.dta
expectations.Rds

## Auxiliary files

We provide additional files that were either used or generated in the process of data cleaning, in particular for the reweighting. (explanations to come)

Files
aggregate_agegrp_ca.xlsx
reweights_aux_ca.csv
reweights_aux_ca.dta
reweights_aux_ca.Rds
reweights_aux_us.csv
reweights_aux_us.dta
reweights_aux_us.Rds
standardize_values.xlsx
statcan_regions_2011_table8.xlsx
state-geocodes-v2017.xlsx

## Temporary files

Temporary files may be made available if a survey has not yet completed, but data are already available.

Temporary files follow

survey-[surveyid].xlsx

## Data description

Topic	Answer
Geographic Coverage	United States of America, Canada
Time Periods	2020-04-24 - 2020-05-25

Topic	Answer
Date of Collection	2020-04-24 - 2020-05-25
Unit of Observation	Individual
Description of Variables	User_ID, Time_UTC, Survey_Completion, Publisher_Category, Gender, Age, Geography, Weight, Question_1_Answer, rt_Q1_ms

### Reference period

The survey asks about point-in-time expectations. A new wave is launched every Friday. The list provides the dates of collection for each wave. Currently, data are available covering the period between 2020-04-24 and 2020-05-25.

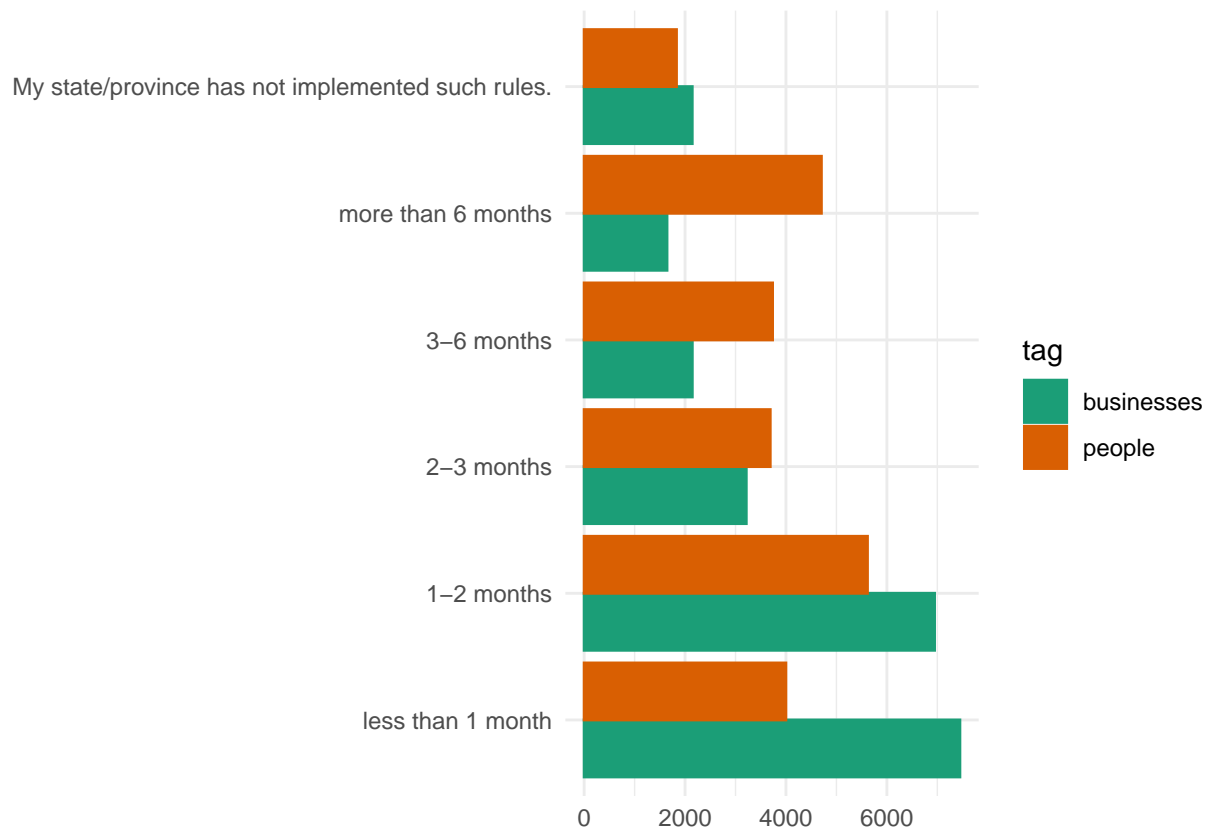
### Data Dictionary

#### Q1: Answer to primary question

This field captures the answer to the sole question of each survey, where answers differ across geographic scope (**geotag**), and languages. A consolidated (standardized) distribution is shown below, using the standardizer mapping.

#### Standardized distribution

The following tabulations are of unweighted data.



#### People, Canada, English

Question_1_Answer	count	percent
1-2 months	1725	23.41
2-3 months	1258	17.07
3-6 months	1174	15.93
less than 1 month	939	12.74
more than 6 months	1512	20.52
My province has not implemented such rules.	760	10.31

#### Business, Canada, French

Question_1_Answer	count	percent
1-2 mois	1040	32.18
2-3 mois	765	23.67
3-6 mois	549	16.99
Les entreprises dans ma province ne sont pas fermées	78	2.41
moins d'un mois	591	18.29
plus que 6 mois	209	6.47

#### People, Canada, French

Question_1_Answer	count	percent
1-2 mois	537	16.93
2-3 mois	634	19.99
3-6 mois	867	27.34
Ma province n'a pas de telles mesures	21	0.66
moins d'un mois	132	4.16
plus que 6 mois	980	30.91

### Business, US, English

Question_1_Answer	count	percent
1-2 months	3530	28.15
2-3 months	1295	10.33
3-6 months	805	6.42
less than 1 month	4996	39.85
more than 6 months	778	6.21
My state has not implemented such rules.	1134	9.04

### People, US, English

Question_1_Answer	count	percent
1-2 months	3217	25.68
2-3 months	1713	13.67
3-6 months	1611	12.86
less than 1 month	2850	22.75
more than 6 months	2123	16.95
My state has not implemented such rules.	1013	8.09

### Question type

The actual question asked is encoded in the **tag** variable on normalized files, and differs by geographic target (**geotag**). On the original files, geographic target is not identifiable except through the file name, and the question text is on the “Overview” tab. On the normalized files, the variables **tag** and **geotag** allow to map back to the actual question:

### Geographic target

Encoded in **geotag** on normalized files, and specifies the two-letter geocode (country or postal abbreviation) as targeted on the Google Survey platform. Note: **geotag** = **qc** also identifies the surveys that used the app.

geotag	count	percent
canada	15751	33.44
ny	1002	2.13
qc	5281	11.21
us	25065	53.22

### Notes

- in Week 1 (2020-04-24), we ran a French-language app survey geo-targeted for Canada, and another one targeted at Québec only. In subsequent weeks, we ran the French-language app survey only in Québec.
- in Week 3 (2020-05-10), we ran a supplementary web survey geo-targeted at New York State.

## Age

Age	count	percent
18-24	6000	12.74
25-34	7497	15.92
35-44	6694	14.21
45-54	5902	12.53
55-64	5809	12.33
65+	5582	11.85
Unknown	9615	20.41

## Gender

Gender	count	percent
Female	17870	37.94
Male	20250	42.99
Unknown	8979	19.06

## Geography

Geography is as coded by Google Surveys. Precision may vary, having country, region, province, and sometimes city. Note that this may be different from the targeted geography.

### Detailed geography

The variable **Geography** corresponds to the geography as captured and recorded by Google. All other geography variables are derived from this variable, and are only available on the normalized files.

## Country

Distribution across countries

## Region

Regions may be single states or provinces, or larger collections. They may correspond to US Census regions or Statistics Canada regions.

## States/Province

States and provinces are codes as two-letter postal abbreviation on the original data files. On derived files, **geonum** contains the numeric FIPS or province code (coded as character to preserve leading zeros), and as a full name (**geoname**). Note that the Google-provided **Region** often, but not always corresponds to a state or province, whereas **State\_Province**, **geonum**, **geoname** always correspond to state/province.

## City

In some cases, details is available at the city level.

## Weight

See elsewhere in this document how weights are computed.

## Response Time

## Publisher Category

## Not tabulated

- User\_ID
- Time\_UTC
- Survey\_Completion

## Data structure

Data files are available for each completed cycle of the survey, in general once a week, and are stored under **final**. Data from the preliminary study (assessing the questionnaire design) is stored under **preliminary**. We may make available data before the survey is completed for each cycle, under **temporary**, however, once the final version from that cycle is available, these are deleted (this directory will be empty on Zenodo).

## Data format

Native format is Office Open XML (XLSX, ECMA International (2016) ). Normalized files are available in Stata and R formats.

Files are provided as downloaded from Google Surveys. Each file has 4 tabs.

## Overview

Lists the questions asked by the client, in this case Lange and Vilhuber, as well as a survey ID.

## Topline

This tab contains a weighted summary of the responses to the questions (similar to the above summary).

## Complete responses

This tab contains the actual microdata for any complete responses. Note that for a single-question survey, this is identical to the “All responses”. A complete response might have a weight of zero.

## All responses

All responses, whether complete or not, are recorded on this tab. In the case of a single-question survey, this is identical to the “Complete responses” tab.



## Data sources and methodology

### Target population

- All Canadians aged 18 and older from the ten provinces and three territories are eligible to participate.
- All US residents aged 18 and older are eligible to participate.

### Instrument design

Each individual is asked one of two questions: how long they expect “social distancing rules” or “business closures” to remain in effect:

- How much longer do you expect social distancing rules (restrictions on gatherings, stay-at-home rules) to stay in place in your province/state?
- How much longer do you expect the closure of non-essential businesses to stay in place in your province/state?

Five response choices are offered:

- “less than 1 month”,
- “1-2 months”,
- “2-3 months”,
- “3-6 months”,
- “more than 6 months”.

An additional answer allows respondents to affirm that “such measures are not implemented in their province/state”. See questionnaires for visual representation of the questions.

### Questionnaires

#### Data collection

Data is collected via Google Surveys. For English-language surveys, data is collected via a web form. For French-language surveys, the Android Google Survey app is used, as web-collection in French is not possible via Google Surveys. See Sostek and Slatkin (2018) and Google (2020) for more details.

The survey questionnaire was approved by McGill University Research Ethics Board under REB File # 20-04-070. Exemption was issued by Cornell University Institutional Review Board under Protocol ID# 2004009539.

### Sampling

Google Surveys is an online non-probability survey. It uses stratified sampling for collection, based (in the US) on the target internet population from the 2017 Current Population Survey (CPS) Computer and Internet Use Supplement (Sostek and Slatkin 2018; Google 2020).

Data are collected directly from survey respondents.

For each country, we plan to collect 2500 responses per question, per week. For Canada, a French-language variant is fielded. In order to determine the split, we use Statistics Canada statistics on “Language spoken most often at home” by other language(s) spoken regularly at home and age” (Statistics Canada 2017),<sup>1</sup> combining responses for “French” and “French and non-official language” (i.e., no English mentioned).

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<sup>1</sup>Table can be downloaded from [here](#).

For 2016, 20.4% spoke French and no English as the language spoken most often at home. We thus target 510 responses via the French-language questionnaire, and 1990 in English.

## **Imputation**

All demographics are imputed by Google Surveys, if collected via web. Demographics for respondents via the app are collected through the app.

## **Weighting**

Weights are provided by Google Surveys, based on the imputed demographics. For the US, the US Census Bureau’s Current Population Survey (CPS) Computer and Internet Use Supplement is used (currently the 2017 version). For Canada, Google (2020) points to a “combination of government data and internal Google data sources.” Google uses post-stratification weighting to align the weighted demographics with the target population.

## **Quality evaluation**

A preliminary survey was conducted to allow for choice of either a two-question variant, or a one-question variant that included both social distancing and business closures (“How much longer do you expect social distancing rules (restrictions on gatherings, closure of non-essential businesses, stay-at-home rules) to stay in place in your province?”). See “Uncertainty in times of COVID-19: Choosing whether to ask 1 or 2 questions” for more information.

## **Privacy and disclosure control**

Privacy and disclosure control are described in Google (2020). For most respondents, no direct or indirect identifiers are collected, and are imputed based on other information available to Google, but not the sponsors of the survey.

## **Response rates**

The specific response rates are not known. Google (2020) reports response rates in general for this type of data collection.

## **Funding**

We acknowledge generous funding by Lange’s Canada Research Chair in Labour and Personnel Economics, and by the Cornell Atkinson Center for Sustainability under its “Rapid Response Fund” program.

## **License**

These data are licensed under a Creative Commons Attribution-NonCommercial 4.0 International license. See citation for attribution.

## References

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