

**Center for Economic and Social Research
Understanding America Study**



**Coronavirus Tracking Survey
Methodology and Selected Topline Results**

**UAS 351 – Wave 31
Feb 1st – Mar 30th, 2022**

March 30, 2022 Release

Methodology of the Understanding Coronavirus In America Study

On March 10 2020, USC's Center for Economic and Social Research (CESR) invited all active members of CESR's Understanding America Study (UAS 266) probability-based internet panel to participate in survey focused on the novel coronavirusSR-2. In April 2020, CESR started the Understanding Coronavirus in America tracking survey, and considered the March survey to be Wave 1. Waves 2 through 25 were conducted bi-weekly (April 2020 through February 2021). Waves 25 - 29 (March through July 2021) changed to a monthly cadence. Subsequent waves are being conducted as single surveys, on a quarterly basis.

This methodology and topline is associated with participants in Wave 31 of the tracking survey, administered from September 23 through October 31, 2021.

Sample Information

A total of 7,036 adult residents of the U.S. participated in this wave and are included in the final UAS 351 data file. Margin of sampling error for the full sample is +/-1.

A total of 9,736 panel members were eligible to be included in the weighted sample, resulting in a participation rate of 74% for this wave. The sample includes 107 who started but did not complete the survey.

Panel members included in the raw data (available upon request) but excluded from the weighted sample files were recruited via listed sample for a specific project and are not included in the topline estimates, or in the associated data files.

Specific sample sizes and sampling error information for subsamples are provided in the topline and crosstab tables. Sampling error calculations are at the 95% confidence level. Factors other than sampling error may affect results of any survey, including question wording, question order, mode, sample type, population coverage, and impact of current events.

Survey Design

Wave 1 and wave 30 of the Understanding Coronavirus in America study were conducted as stand-alone surveys (i.e., all UAS members were invited on the same day, with a decreasing distribution of participation over time). To provide a steady sample for daily tracking of changes over time, in waves 2-29 panel members were randomized to respond on a pre-assigned day of the week, distributed so that our full sample would participate over a specific period of time, with a set percentage participating each day. Waves 2-24 of the national survey were conducted with a 14-day cadence while waves 25-29 were conducted over a 28-day period. Los Angeles County residents participated twice as often, creating first a weekly sample, then a bi-weekly one. Participants were provided with incentive compensation at a prorated rate of \$20 for 30 minutes of survey time. Respondents could participate anytime between their assigned days in the current and subsequent waves. Those who completed on their assigned day received an extra \$1 incentive. Most respondents (90%) participated on their assigned day. Microdata single-survey wave data files and an updated longitudinal file are available to data users who register for an account at [UASdata.usc.edu](https://uasdata.usc.edu), after each full wave.

Interactive graphic results: The tracking survey design allowed us to provide daily updates to graphs on our tracking survey website Covid19Pulse.usc.edu while waves 1-29 of the tracking survey were being conducted. Results are shown there from our national, California and Los Angeles County samples, overall and among categories of age, race/ethnicity, gender, education, and income, when sample size allows. We provide the aggregated data used to create the graphics in csv format, and the graphics files themselves are downloadable in several formats.

Survey questionnaires, topline, microdata files, and a press room are available on our UAS Covid19 data site at uasdata.usc.edu/page/Covid-19+Home

Questionnaire

Survey wording and question text are provided in this topline release, but for full wording including context, please refer to the associated codebook and questionnaire. For most questions, we rotated the order of response options, and/or questions to average out order effects. Respondents participated via computer, mobile device or tablet, at any time of day or night during the field period. The survey was conducted in the respondents' choice of English or Spanish.

Topline reports, codebook, and questionnaires associated with this release are available without need for registration at <https://uasdata.usc.edu/page/COVID-19+Corona+Virus>.

Weights

The method for creating sample weights for the tracking survey follows the general procedure for UAS surveys described in [CESR's online methodology documentation](#). Sample weights are constructed in two steps. First, we calculate a base weight that corrects for unequal probabilities of selection of different households into the UAS. Second, we generate post-stratification weights, which align sample distributions of key demographics, namely gender, race/ethnicity, age, education, and geographic location, with their population counterparts. Population benchmarks are derived from the Basic Monthly Current Population Survey (CPS). The provided sample weights bring the sample in line with the U.S. adult population, if the entire sample is used. The sample weights also provide alignment with the population of Los Angeles County residents, California residents excluding Los Angeles County, and U.S. excluding California, if these geographic sub-samples are selected.

About the Understanding America Study Internet Panel

The Understanding America Study (UAS) is an ongoing national research panel that started in 2014. We recruit panel members in waves from Marketing Systems Group frames of all household addresses in the United States. To ensure full coverage of the U.S. population, we provide internet-connected tablets to households that were not already online. Our panel includes U.S. residents who have cell phones, landlines, or no phone at all. It also includes a small number of respondents recruited from a listed sample, these participants are not included in weighted samples. Panel members are compensated for their participation.

For more information about the UAS panel, including weighting details; panel sampling procedures; recruitment protocols, survey and recruitment response rates; panel attrition rates; panel management protocols; and microdata files (including nonresponse and paradata), please visit the Understanding America Study panel website at <https://UASdata.usc.edu> or contact us at uas-l@usc.edu

About the Center for Economic and Social Research

The Center for Economic and Social Research (CESR), part of the USC Dornsife College of Letters, Arts and Sciences, conducts basic and applied research in economics, psychology, demography, education, and sociology. The center's name signifies the breadth of the research, which encompasses numerous disciplines, topics and methodologies. The Center's multi-disciplinary philosophy fosters a productive and innovative research environment focused on understanding and informing important societal issues.

Survey Team

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For questions about this survey, please contact uas-l@usc.edu

The USC Dornsife Center for Economic and Social Research is a proud member of the American Association for Public Opinion Research's [Transparency Initiative](#). The survey was funded by the USC Dornsife College of Arts, Letters and Sciences, the Bill & Melinda Gates Foundation, and many other donors.

Topline Report

Survey dates Feb 1st – Mar 30th, 2022
Sample size 7036 Adult U.S. Residents

This report provides the sample characteristics for the UAS 350 weighted national sample, as well as brief summaries of responses to the questions included in the data file. Full questionnaires, longitudinal and single data files, and other survey and panel information are available at UASdata.usc.edu.

National Sample Characteristics

The table below summarizes select characteristics of the full National sample, with and without survey weights.

	National unweighted	National weighted
Male	40%	48%
Age(18-34)	17%	24%
Age(35-54)	37%	37%
Age(55-64)	20%	18%
Age(65+)	26%	21%
Low education (HS or less)	21%	38%
Medium education (Some College)	36%	27%
High education (College degree)	44%	35%
HH income (\$0-24,999)	19%	23%
HH income (\$25,000-49,999)	21%	21%
HH income (\$50,000-74,999)	19%	19%
HH income (\$75,000 and above)	41%	37%
Non-Hispanic White	67%	62%
Non-Hispanic Black	8%	12%
Non-Hispanic Asian	5%	5%
Non-Hispanic Other	5%	3%
Hispanic/Latino	14%	17%

Please refer to the topline results reported in the attached document for question-specific sample sizes and margins of sampling error.

Survey introduction:

Thank you for agreeing to participate in our ongoing survey which focuses on the impact of the novel coronavirus (COVID-19). We will send you a reminder to check in once every fourteen days, on [day of the week], to let us know how the coronavirus epidemic is affecting you. Most of the questions in this survey were asked in previous surveys. Thank you for answering them accurately again, to ensure we always have the most updated information.

1. COVID-19 Symptoms, Testing, and Medical Care

cr002: Have you been tested for coronavirus since [date of previous survey]? If so, what was the result?

	Tested Positive	Tested Negative	Tested Don't Know Result	Not Tested	Obs	MOSE
cr002: Tested for COVID-19	14.4	35.2	0.5	49.9	7010	+/- 1

cr079: [if cr002=1,2,3 (they have been tested)] How many times have you been tested since [DATE OF PREVIOUS SURVEY]?

	Mean	Obs	MOSE
cr079: how many times tested	3.2	3555	+/- 2

cr005: Whether or not you have had a coronavirus test, has a doctor or another healthcare professional diagnosed you as having or probably having the coronavirus since [date of previous survey] ?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr005: diagnosed with the coronavirus	9.1	89.5	1.4	7006	+/- 1
cr005a: experienced cold or flu	16.5	80.5	3.0	7003	+/- 1

cr005a: Have you experienced a cold or the flu since [DATE ONE MONTH AGO]?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr005a: experienced cold or flu	16.5	80.5	3.0	7003	+/- 1

cr007: [if cr002 != 1 AND cr005 !=1] Do you think you have been infected with the coronavirus since [date of previous survey] ?

	1 Yes	2 No	Obs	MOSE
cr007: think infected with coronavirus	8.0	92.0	5931	+/- 1

health_insurance: Do you currently have health insurance?

	1 Yes	2 No	3 Unsure	Obs	MOSE
health_insurance: have health insurance	89.7	8.6	1.7	7003	+/- 1

2. COVID-19 Knowledge, Expectations, and Behaviors

cr015: In the last seven days, have you done the following:

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr015a: Gone out to a bar, club, or other place where people gather	25.9	73.3	0.8	6993	+/- 1
cr015b: Gone to the grocery store or pharmacy	85.2	14.3	0.5	6993	+/- 1
cr015c: Gone to a friend, neighbor, or relatives residence (that is not your own)	50.7	48.5	0.7	6995	+/- 1
cr015d: Had visitors such as friends, neighbors or relatives at your residence	50.5	48.9	0.7	6997	+/- 1
cr015e: Attended a gathering with more than 10 people, such as a reunion, wedding, funer	30.9	68.4	0.7	6997	+/- 1
cr015f: Sought care from a hospital or health care facility	11.5	87.8	0.7	6993	+/- 1
cr015g: Been placed in isolation or quarantine	4.2	95.1	0.7	6996	+/- 1
cr015h: Remained in your residence at all times, except for essential activities or exer	30.4	68.4	1.2	6991	+/- 1
cr015i: Shared items like towels or utensils with other people	29.7	69.2	1.1	6994	+/- 1
cr015j: Had close contact (within 6 feet) with people who live with you	79.7	19.5	0.8	6995	+/- 1
cr015k: Had close contact (within 6 feet) with people who do not live with you	75.6	23.5	0.9	6997	+/- 1
cr015l: Gone outside to walk, hike, or exercise	69.0	30.3	0.7	6996	+/- 1
cr015m: Attended a political rally, protest, or demonstration	0.6	98.8	0.7	6990	+/- 1
cr015n: Attended an in-person religious service	16.1	83.3	0.6	6993	+/- 1
cr015r: Traveled by airplane	4.5	94.7	0.8	6990	+/- 1
cr015s: Traveled by public transportation (bus, subway, commuter rail, etc.)	7.0	92.3	0.7	6995	+/- 1

cr069: [if cr015a = 1 OR cr015b = 1 OR cr015c = 1 OR cr015d = 1 OR cr015e = 1 OR cr015f = 1 OR cr015k = 1 OR cr015l = 1 OR cr015m = 1 OR cr015n = 1 OR cr015r = 1 OR cr015s = 1] For each of the following activities, please indicate how often, if ever, you wore a mask or face covering.

	Always	Most of the time	Sometimes	Rarely	Never	Unsure	Obs	MOSE
cr069a: gone out to a bar, club, or other place where people gather	11.9	11.7	18.6	16.0	41.4	0.4	1884	+/- 2
cr069b: gone to the grocery store or pharmacy	48.2	10.0	12.3	7.5	21.8	0.2	6043	+/- 1
cr069c: friend, neighbor, or other relatives residence	6.6	5.2	13.5	14.9	59.4	0.4	3560	+/- 2
cr069d: visitors such as friends, neighbors, or relatives at residence	4.6	4.8	11.0	15.1	64.3	0.3	3514	+/- 2
cr069e: attended a gathering with more than 10 people	17.7	10.7	16.0	15.2	40.2	0.2	2221	+/- 2
cr069f: sought care from a hospital or health care facility	80.3	6.9	4.8	4.8	3.1	0.1	865	+/- 3
cr069k: had close contact (within 6 feet) with people who do not live with you	16.4	16.5	21.8	12.9	32.2	0.2	5390	+/- 1
cr069l: gone outside to walk, hike, or exercise	8.2	7.3	10.4	12.3	61.6	0.3	5009	+/- 1
cr069n: attended an in-person religious service	29.0	7.7	10.7	9.0	43.6	0.1	1224	+/- 3
cr069r: traveled by airplane	74.3	8.0	6.0	6.8	4.7	0.2	339	+/- 5
cr069s: traveled by public transportation (bus, subway, commuter rail, etc.)	67.5	9.6	10.2	4.2	7.5	0.9	460	+/- 5

cr021: We would like to ask about your family, as well as your close friends. How many family or close friends do you have? Only include people who are still alive, regardless of where they live.

	Mean	Obs	MOSE
cr021: how many family or close friends	34.9	6943	+/- 1

cr022: [if [number of friends] > 0] Of these people, how many do you think have been infected with the coronavirus?

	Mean	Obs	MOSE
cr022: infected how many family or close friends	11.3	6812	+/- 1
cr022a: hospitalized how many family or close friends	1.0	6810	+/- 1
cr022b: died how many family or close friends	0.5	6811	+/- 1
cr022c: received vaccine how many family or close friends	20.8	6802	+/- 1

cr022a: [if [number of friends] > 0] You said that you have [number of friends] family and close friends. Of these people, how many do you think have been hospitalized (spent at least one night in the hospital) from the coronavirus?

	Mean	Obs	MOSE
cr022a: hospitalized how many family or close friends	1.0	6810	+/- 1

cr022b: [if [number of friends] > 0] You said that you have [number of friends] family and close friends. Of these people, how many do you think have died from the coronavirus?

	Mean	Obs	MOSE
cr022b: died how many family or close friends	0.5	6811	+/- 1

cr022c: You said that you have [NUMBER] family and close friends. Of these people, how many do you think have received at least one dose of the coronavirus vaccine?

	Mean	Obs	MOSE
cr022c: received vaccine how many family or close friends	20.8	6802	+/- 1

3. COVID-19 Risk Perceptions

cr023: On a scale of 0 to 100 percent, what is the chance that you will get the coronavirus in the next three months? If you are not sure, please give your best guess.

	Mean	Obs	MOSE
cr023: chance get coronavirus in next 3 months	22.8	6976	+/- 1
cr023b: chance hospitalized if get coronavirus	14.6	6977	+/- 1

cr023b: If you do get the coronavirus, what is the percent chance you will be hospitalized (spend at least one night in the hospital) from it? If you are not sure, please give your best guess.

	Mean	Obs	MOSE
cr023b: chance hospitalized if get coronavirus	14.6	6977	+/- 1

cr024: If you do get the coronavirus, what is the percent chance you will die from it? If you are not sure, please give your best guess.

	Mean	Obs	MOSE
cr024: chance die from coronavirus	11.6	6974	+/- 1

4. Vaccination

cr025: Do you agree or disagree with the following statements about childhood vaccines?

	Strongly Disagree	Disagree	Agree	Strongly Agree	Obs	MOSE
cr025a: have many known harmful side effects	27.7	45.5	21.9	4.8	6971	+/- 1
cr025b: Provide important benefits to society	3.0	5.0	42.1	49.8	6974	+/- 1
cr025c: may lead to illness and death	31.8	41.8	22.4	4.0	6971	+/- 1
cr025d: are useful and effective	3.1	4.4	43.6	48.9	6975	+/- 1

cr113: Which of the following comes closest to your beliefs?

	1 I believe in God	2 I believe in some other higher power or spiritual force	3 I do not believe in any higher power/spiritual force	4 I'm not sure	Obs	MOSE
cr113: closest to beliefs	68.2	12.2	9.6	10.0	6967	+/- 1

cr107: How effective are the following actions to keep someone safe from coronavirus? [randomize order]

	1 Extremely effective	2 Somewhat effective	3 Somewhat ineffective	4 Extremely ineffective	Obs	MOSE
cr107a: how effective praying regularly	33.7	26.8	14.3	25.2	6960	+/- 1
cr107b: how effective washing hands with soap or using hand sanitizer frequently	63.2	32.0	3.3	1.4	6969	+/- 1
cr107c: how effective wearing a mask or face covering	42.3	35.3	12.9	9.5	6969	+/- 1
cr107d: how effective getting vaccinated	50.6	29.1	9.8	10.6	6969	+/- 1

cr108: How necessary are the following actions to keep someone safe from coronavirus? [same order as cr107]

	1 Extremely necessary	2 Somewhat necessary	3 Somewhat unnecessary	4 Extremely unnecessary	Obs	MOSE
cr108a: how necessary praying regularly	34.3	23.8	16.8	25.1	6955	+/- 1
cr108b: how necessary washing hands with soap or using hand sanitizer frequently	69.5	25.8	3.6	1.2	6965	+/- 1
cr108c: how necessary wearing a mask or face covering	47.3	29.3	12.9	10.5	6964	+/- 1
cr108d: how necessary getting vaccinated	53.4	24.5	11.3	10.8	6965	+/- 1

cr109: Does praying regularly make hand washing or using hand sanitizer more or less necessary, or does it not make a difference?

	1 Much more necessary	2 More necessary	3 No difference	4 Less necessary	5 Much less necessary	6 Unsure	Obs	MOSE
cr109a: praying make more or less necessary hand washing	7.5	5.8	74.8	1.3	1.4	9.2	6956	+/- 1
cr109b: praying make more or less effective hand washing	6.1	6.1	76.1	0.9	1.3	9.4	6960	+/- 1

cr110: Does praying regularly make wearing a mask or face covering more or less necessary, or does it not make a difference?

	1 Much more necessary	2 More necessary	3 No difference	4 Less necessary	5 Much less necessary	6 Unsure	Obs	MOSE
cr110a: praying make more or less necessary mask covering	6.4	5.2	75.4	1.6	1.7	9.7	6954	+/- 1
cr110b: praying make more or less effective face covering	5.8	5.3	76.6	1.1	1.4	9.8	6957	+/- 1

cr111: Does praying regularly make getting vaccinated more or less necessary, or does it not make a difference?

	1 Much more necessary	2 More necessary	3 No difference	4 Less necessary	5 Much less necessary	6 Unsure	Obs	MOSE
cr111a: praying make more or less necessary getting vaccinated	5.9	5.1	74.8	2.0	2.1	10.0	6955	+/- 1
cr111b: praying make more or less effective getting vaccinated	5.7	5.6	75.8	1.3	1.5	10.1	6956	+/- 1

cr112: [if cr113 = 1, 2, or 4] How strongly do you agree or disagree with each of the following statements? [randomize order]

	1 Strongly agree	2 Somewhat agree	3 Somewhat disagree	4 Strongly disagree	Obs	MOSE
cr112a: God protects someone who has faith, even if the person doesn't pray regularly	39.6	38.0	11.5	11.0	6215	+/- 1
cr112b: God protects who prays regularly, even if no particular religion	37.1	36.2	14.0	12.7	6214	+/- 1
cr112c: God protects someone who never prays and doesn't believe in God	27.7	38.1	19.7	14.5	6213	+/- 1

cr092: [if prefill of cr075 = yes and not previously confirmed] You previously told us that you got vaccinated for the coronavirus. Is this correct?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr092: confirmation gotten vaccinated for the coronavirus	99.7	0.2	0.1	5130	+/- 1

cr075: [if preload_cr075 = empty or [2,3] or cr092 != yes] Have you gotten vaccinated for the coronavirus?

	Yes	No	Unsure	Obs	MOSE
cr075: gotten vaccinated for the coronavirus	76.0	22.8	1.2	6962	+/- 1

cr093: [if prefill of cr075 = yes and cr081 ~= missing and cr081 ~= unsure and not previously confirmed] You previously told us that you received the [prefill of cr081] vaccine. Is this correct?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr093: confirmation type vaccine	99.8	0.1	0.0	5098	+/- 1

cr095: [if cr075 = yes and preload_cr076 = RESPONSE and not previously confirmed] You previously told us that you had received [preload_cr076] doses of the coronavirus vaccine. Is this still correct?

	1 Yes, I have received this many doses	2 No, I have received additional doses/boosters since then	3 Unsure	Obs	MOSE
cr095: confirmation gotten number of doses	84.6	15.0	0.4	5109	+/- 1

cr076: [if cr075=yes] Some coronavirus vaccines require two doses (injections) spaced several weeks apart. How many doses of the coronavirus vaccine have you received?

	0	1	2	Obs	MOSE
cr076: how many doses received	12.3	75.8	11.9	5590	+/- 1

cr072: Do you agree or disagree with the following statements? Vaccines for the coronavirus (COVID-19):

	1 Strongly disagree	2 Disagree	3 Agree	4 Strongly agree	Obs	MOSE
cr072a: covid 19 vaccines have many known harmful side effects	20.9	40.0	27.9	11.2	6907	+/- 1
cr072b: covid 19 vaccines provide important benefits to society	10.4	14.8	36.4	38.4	6914	+/- 1
cr072c: covid 19 vaccines may lead to illness and death	23.6	36.2	29.1	11.1	6911	+/- 1
cr072d: covid 19 vaccines are useful and effective	11.4	14.9	36.7	37.1	6910	+/- 1

cr077: [if cr076=1 dose] How likely are you to receive the second dose of the coronavirus vaccine once enough time has passed since your first dose?

	1 Very unlikely	2 Somewhat unlikely	3 Somewhat likely	4 Very likely	5 Unsure	Obs	MOSE
cr077: how likely receive second dose of coronavirus vaccine	10.7	2.4	8.9	73.5	4.5	230	+/- 6

cr102: [if fully vaccinated] A booster is an additional vaccine dose for someone who is already fully vaccinated. Have you received a booster shot of the coronavirus vaccine?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr102: received booster	67.4	32.1	0.5	5353	+/- 1

cr104: [if cr102=no] How likely are you to receive a booster shot of the coronavirus vaccine when it becomes available to you?

	1 Very unlikely	2 Somewhat unlikely	3 Somewhat likely	4 Very likely	5 Unsure	Obs	MOSE
cr104: how likely receive a booster shot when available	24.2	15.4	21.7	27.7	11.0	1477	+/- 3

md001: Do you currently support or oppose requiring U.S. adults to be fully vaccinated against COVID-19 to do the following activities?

	1 Support	2 Neither support nor oppose	3 Oppose	Obs	MOSE
md001a: vaccinated travel on an airplane	48.0	25.9	26.1	6949	+/- 1
md001b: vaccinated attend an indoor public event	44.3	27.1	28.5	6948	+/- 1
md001c: vaccinated go to a bar or restaurant	39.2	31.7	29.2	6949	+/- 1
md001d: vaccinated go to a retail store, movie theater, or museum	38.6	32.6	28.9	6949	+/- 1

md002: For each of the following types of schools, should students who are eligible for the coronavirus vaccine be required to be fully vaccinated to attend school in person?

	1 Yes	2 No	3 Unsure	Obs	MOSE
md002a: vaccinated attend preschool	31.8	46.9	21.3	6945	+/- 1
md002b: vaccinated elementary school	42.4	42.4	15.1	6946	+/- 1
md002c: vaccinated attend middle or high school	49.8	38.5	11.7	6946	+/- 1
md002d: vaccinated attend college	51.7	36.9	11.4	6947	+/- 1

md003: Do you currently support or oppose requiring the following categories of workers to be fully vaccinated against COVID-19?

	1 Support	2 Neither support nor oppose	3 Oppose	Obs	MOSE
md003a: vaccinated hospital or other health care workers	56.8	21.6	21.6	6938	+/- 1
md003b: vaccinated workers who interact with the public, such as restaurant or retail wo	50.2	26.0	23.8	6937	+/- 1
md003c: vaccinated members of the military	49.6	26.4	24.1	6938	+/- 1
md003d: vaccinated government workers, such as fire fighters or police officers	51.2	24.8	24.0	6934	+/- 1
md003e: vaccinated teachers and school staff	53.3	23.1	23.6	6941	+/- 1
md003f: vaccinated workers who do not interact with the public, such as office workers	37.0	37.2	25.7	6943	+/- 1
md003g: vaccinated taxi or rideshare (Lyft, Uber, etc.) drivers	48.1	27.7	24.2	6943	+/- 1

md011: Many states require children to receive vaccinations against diseases such as measles, mumps, rubella, diphtheria, pertussis, and tetanus before they can attend school. In general, do you support or oppose these requirements?

	1 Support	2 Neither support nor oppose	3 Oppose	4 Unsure	Obs	MOSE
md011: support existing school vaccinations	72.9	18.4	6.1	2.6	6942	+/- 1

md004: Do you currently support or oppose requiring U.S. adults to wear a mask to do the following activities?

	1 Support	2 Neither support nor oppose	3 Oppose	Obs	MOSE
md004a: wear a mask travel on an airplane	61.0	20.5	18.4	6936	+/- 1
md004b: wear a mask attend a large public event, like a concert or sporting event	53.9	25.1	20.9	6939	+/- 1
md004c: wear a mask go to a bar or restaurant	44.6	31.5	23.9	6940	+/- 1
md004d: wear a mask go to a retail store, movie theater, or museum	49.3	27.7	23.0	6941	+/- 1

md005: Do you currently support or oppose requiring students to wear a mask to attend each of the following types of schools?

	1 Support	2 Neither support nor oppose	3 Oppose	Obs	MOSE
md005a: wear a mask attend preschool	40.0	30.8	29.2	6935	+/- 1
md005b: wear a mask elementary school	47.9	25.1	27.0	6936	+/- 1
md005c: wear a mask attend middle or high school	52.3	23.3	24.4	6937	+/- 1
md005d: wear a mask attend college	52.7	24.2	23.2	6936	+/- 1

md006: Do you currently support or oppose requiring the following workers to wear a mask while they are at work?

	1 Support	2 Neither support nor oppose	3 Oppose	Obs	MOSE
md006a: wear a mask hospital or other health care workers	67.8	19.1	13.1	6927	+/- 1
md006b: wear a mask restaurant or retail workers	56.8	24.4	18.8	6931	+/- 1
md006c: wear a mask members of the military	47.3	31.4	21.3	6926	+/- 1
md006d: wear a mask government workers, such as fire fighters or police officers	51.2	28.2	20.5	6929	+/- 1
md006e: wear a mask teachers and school staff	56.6	23.6	19.8	6931	+/- 1
md006f: wear a mask workers who do not interact with the public, such as office workers	40.9	36.0	23.1	6933	+/- 1
md006g: wear a mask taxi or rideshare (Lyft, Uber, etc.) drivers	54.7	25.7	19.6	6934	+/- 1

md007: In your community, how often are people required to wear a mask to do the following activities:

	1 Always	2 Sometimes	3 Rarely	4 Never	5 Unsure	Obs	MOSE
md007a: required wear a mask travel on an airplane	70.4	5.5	2.9	4.3	16.9	6931	+/- 1
md007b: required wear a mask attend a large public event, like a concert or sporting eve	30.1	27.5	15.0	12.9	14.6	6932	+/- 1
md007c: required wear a mask go to a bar or restaurant	23.2	25.0	20.9	20.2	10.6	6933	+/- 1
md007d: required wear a mask go to a retail store, movie theater, or museum	27.1	26.2	19.5	17.9	9.4	6933	+/- 1

md008: Governments and other organizations may require people to be fully vaccinated before they can participate in various activities. For each activity below, would a requirement to be fully vaccinated increase your chance of becoming vaccinated yourself?

	1 Yes	2 No	3 Unsure	Obs	MOSE
md008a: if required get vaccinated travel on an airplane	17.6	66.7	15.7	1587	+/- 2
md008b: if required get vaccinated attend large public events	13.9	70.0	16.1	1590	+/- 2
md008c: if required get vaccinated go to a retail store, movie theater, or museum	15.2	68.4	16.4	1590	+/- 2
md008d: if required get vaccinated go to a bar or restaurant	14.2	71.2	14.6	1591	+/- 2
md008e: if required get vaccinated work in your current job	17.9	66.5	15.5	1590	+/- 2
md008f: if required get vaccinated attend college	14.0	70.9	15.1	1591	+/- 2
md008g: if required get vaccinated attend an event at childs school	17.0	66.4	16.6	1591	+/- 2

md010: [if not fully vaccinated] Does the FDA approval of coronavirus vaccines make it more likely or less likely that you will become fully vaccinated?

	1 Much more likely	2 Somewhat more likely	3 No difference	4 Somewhat less likely	5 Much less likely	6 Unsure	Obs	MOSE
md010: FDA approval change likelihood of becoming fully vaccinated	8.4	7.1	55.9	3.0	16.7	8.9	1590	+/- 2

md009: Governments and other organizations may require people to wear a mask in order to participate in various activities. For each activity below, would you wear a mask if you were required to in order to participate?

	1 Yes, regardless of whether I was required	2 Yes, only if I was required	3 No	4 Unsure	5 Not applicable	Obs	MOSE
md009a: if required wear mask travel on an airplane	57.4	28.7	8.0	3.1	2.9	6921	+/- 1
md009b: if required wear mask attend large public events	49.2	30.3	13.8	4.2	2.5	6917	+/- 1
md009c: if required wear mask go to a retail store, movie theater, or museum	46.5	34.1	14.6	3.8	1.0	6915	+/- 1
md009d: if required wear mask go to a bar or restaurant	40.5	36.2	17.2	4.1	2.0	6918	+/- 1
md009e: if required wear mask work in your current job	35.8	33.2	13.6	3.5	14.0	6918	+/- 1
md009f: if required wear mask attend college	38.8	29.4	14.3	4.0	13.5	6923	+/- 1
md009g: if required wear mask attend an event at child school	42.5	31.9	10.8	3.3	11.4	6923	+/- 1

cr089: How much do you trust the process in general (not just for COVID-19) to develop safe vaccines for children?

	1 Fully trust	2 Mostly trust	3 Somewhat trust	4 Do not trust	Obs	MOSE
cr089: trust in child vaccine manufacturing process	19.3	36.9	26.1	17.7	6914	+/- 1

cr090: How much do you trust the governmental approval process to ensure a COVID-19 vaccine is safe for children?

	1 Fully trust	2 Mostly trust	3 Somewhat trust	4 Do not trust	Obs	MOSE
cr090: trust in children governmental approval process	17.3	31.6	24.3	26.8	6911	+/- 1

cr105: Booster shots are additional vaccine doses for people who are already fully vaccinated. How much do you trust that COVID-19 booster shots are safe for the public?

	Fully trust	Mostly trust	Somewhat trust	Do not trust	Obs	MOSE
cr105: trust in covid-19 booster shots	22.7	31.8	21.8	23.7	6910	+/- 1

cr073: On a scale of 0 to 100, what is the percent chance that someone who is vaccinated against the coronavirus could still catch it? If you are unsure, please give your best guess.

	Mean	Obs	MOSE
cr073: chance someone vaccinated against coronavirus still catch it	54.4	6915	+/- 1

cr074: On a scale of 0 to 100, what is the percent chance that a coronavirus vaccine will cause serious side effects or long-term health problems for someone who has been vaccinated? If you are unsure, please give your best guess.

	Mean	Obs	MOSE
cr074: chance coronavirus vaccine will cause serious side effects	29.8	6908	+/- 1

ucv005: How much do you trust the process in general (not just for COVID-19) to develop safe vaccines for the public?

	1 Fully trust	2 Mostly trust	3 Somewhat trust	4 Do not trust	Obs	MOSE
ucv005: trust in vaccine manufacturing process	19.9	39.0	24.9	16.2	6915	+/- 1

ucv006: How much do you trust the governmental approval process to ensure the COVID-19 vaccine is safe for the public?

	1 Fully trust	2 Mostly trust	3 Somewhat trust	4 Do not trust	Obs	MOSE
ucv006: trust in governmental approval process	18.1	33.3	24.7	23.9	6913	+/- 1

5. Mental Health, Physical Health, and Substance Abuse

cr027: Over the past fourteen days, how often have you been bothered by any of the following problems?

	Not at All	Several Days	More than Half	Nearly Everyday	Obs	MOSE
cr027a: how often Feeling nervous, anxious, or on edge	67.5	22.8	6.1	3.7	6902	+/- 1
cr027b: how often Not being able to stop or control worrying	74.3	17.6	4.7	3.3	6903	+/- 1
cr027c: how often Feeling down, depressed, or hopeless	71.8	19.7	4.8	3.6	6906	+/- 1
cr027d: how often Little interest or pleasure in doing things	72.1	19.2	5.0	3.7	6906	+/- 1

cr053: How strongly do you agree with each of the following?

	1 Strongly disagree	2 Disagree	3 Neutral	4 Agree	5 Strongly agree	Obs	MOSE
cr053a: I tend to bounce back quickly after hard times	2.7	10.3	27.8	45.7	13.5	6915	+/- 1
cr053b: I have a hard time making it through stressful events	19.3	40.9	23.4	13.7	2.6	6913	+/- 1
cr053c: It does not take me long to recover from a stressful event	4.5	15.5	26.6	42.6	10.8	6912	+/- 1
cr053d: It is hard for me to snap back when something bad happens	19.7	41.5	23.3	13.0	2.5	6915	+/- 1
cr053e: I usually come through difficult times with little trouble	3.2	12.9	30.1	43.6	10.2	6915	+/- 1
cr053f: I tend to take a long time to get over set-backs in my life	18.9	41.7	24.8	12.0	2.6	6912	+/- 1

cr054s: [if preloads are empty] Have you ever been told by a doctor, nurse, or other health professional that you have any of the following medical conditions? (please select all that apply)

	No	Yes	Obs	MOSE
cr054s1: Diabetes	87.9	12.1	6915	+/- 1
cr054s2: Cancer (other than skin cancer)	94.7	5.3	6915	+/- 1
cr054s3: Heart disease	93.8	6.2	6915	+/- 1
cr054s4: High blood pressure	69.1	30.9	6915	+/- 1
cr054s5: Asthma	88.4	11.6	6915	+/- 1
cr054s6: Chronic lung disease such as COPD or emphysema	96.1	3.9	6915	+/- 1
cr054s7: Kidney disease	97.5	2.5	6915	+/- 1
cr054s8: Autoimmune disorder such as rheumatoid arthritis or Crohns Disease	94.9	5.1	6915	+/- 1
cr054s9: A mental health condition	88.0	12.0	6915	+/- 1
cr054s10: Obesity	84.0	16.0	6915	+/- 1
cr054s11: None of the above	56.6	43.4	6915	+/- 1

cr056: [if preloads are empty] Which of the following mental health conditions has a doctor or another health professional ever told you that you have?

	1 Yes	2 No	3 Unsure	Obs	MOSE
cr056a: An anxiety disorder	18.2	78.5	3.3	6908	+/- 1
cr056b: Attention deficit hyperactivity disorder (ADHD)	5.4	92.0	2.6	6909	+/- 1
cr056c: Bipolar disorder	3.6	93.9	2.4	6906	+/- 1
cr056d: An eating disorder	2.2	95.5	2.3	6911	+/- 1
cr056e: Depression or another depressive disorder	21.3	76.2	2.6	6910	+/- 1
cr056f: Obsessive-compulsive disorder (OCD)	3.4	93.5	3.2	6911	+/- 1
cr056g: Post-traumatic stress disorder (PTSD)	7.1	90.1	2.8	6907	+/- 1
cr056h: Schizophrenia or another psychotic disorder	1.2	96.8	2.1	6906	+/- 1
cr056i: other mental issue	2.4	91.3	6.3	6773	+/- 1

cr055: [if preloads are empty] [for each

	1 Before March 10, 2020	2 After March 10, 2020	3 Unsure	Obs	MOSE
cr055a: diabetes	96.1	1.7	2.2	836	+/- 3
cr055b: cancer (other than skin cancer)	94.0	2.3	3.8	473	+/- 5
cr055c: heart disease	96.6	2.5	1.0	441	+/- 5
cr055d: high blood pressure	96.4	2.2	1.5	2221	+/- 2
cr055e: asthma	97.1	2.0	0.9	781	+/- 4
cr055f: chronic lung disease such as COPD or emphysema	97.6	1.6	0.9	257	+/- 6
cr055g: kidney disease	91.6	4.2	4.1	180	+/- 7
cr055h: an autoimmune disorder such as rheumatoid arthritis or Crohns disease	95.2	2.9	2.0	405	+/- 5
cr055i: a mental health condition	95.1	3.5	1.4	826	+/- 3
cr055j: obesity	97.6	1.3	1.1	1240	+/- 3

cr057: Did the doctor or other health professional first say that you have [CR056] before or after March 10, 2020?

	1 Before March 10, 2020	2 After March 10, 2020	3 Unsure	Obs	MOSE
cr057a: since when an anxiety disorder	94.3	3.3	2.4	1182	+/- 3
cr057b: since when attention deficit hyperactivity disorder (ADHD)	91.6	5.8	2.6	314	+/- 6
cr057c: since when bipolar disorder	94.4	4.5	1.2	197	+/- 7
cr057d: since when an eating disorder	85.6	8.6	5.7	151	+/- 8
cr057e: since when depression or another depressive disorder	95.3	2.6	2.1	1482	+/- 3
cr057f: since when obsessive-compulsive disorder (OCD)	91.6	4.4	4.1	208	+/- 7
cr057g: since when post-traumatic stress disorder (PTSD)	90.8	4.9	4.3	491	+/- 4
cr057i: since when other mental issue	84.1	5.8	10.1	189	+/- 7

cr060: [if preload_cr060 = EMPTY] Thinking about your sexual identity, how would you define yourself?

	Homosexual or gay or lesbian or not straight	Bisexual	Heterosexual or straight or not gay	Some other description	Obs	MOSE
cr060: sexual identity	2.8	3.6	90.7	2.9	6915	+/- 1

cr061s: [if preload_cr061 = EMPTY] Thinking about your gender identity, how would you define yourself? (Check all that apply)

	No	Yes	Obs	MOSE
cr061s1: Woman	48.9	51.1	6916	+/- 1
cr061s2: Man	52.0	48.0	6916	+/- 1
cr061s3: Trans woman	100.0	0.0	6916	+/- 1
cr061s4: Trans man	99.8	0.2	6916	+/- 1
cr061s5: Non-binary, gender-nonconforming, or genderqueer	99.3	0.7	6916	+/- 1
cr061s6: Some other description (please specify): cr061_other	99.6	0.4	6916	+/- 1

6. Labor Market Outcomes

lr001: [If reported having job in previous wave] The next set of questions are about your primary job. If you have multiple jobs, think of the job in which you work the most hours or receive the most pay. You told us on [date of earlier survey[]] that you had a job. Which statement best reflects your current employment status.

	Same Job	Lost Job and Looking	Temp Laid Off	Sick or Other Leave	Working at Different Job	Retired	None	Obs	MOSE
lr001: employment status	89.5	1.8	0.5	1.2	4.5	1.6	0.8	3846	+/- 2

lr003cc: [If reported having retired in previous wave] You told us in [previous survey] that you were retired. Which statement best reflects your current employment status?

	Still retired	Now have a job	Unemployed and looking	None of these	Obs	MOSE
lr003cc: job status after retired	96.1	0.7	0.4	2.7	1664	+/- 2

lr003dd: [If reported not in labor force in previous wave] You told us in [previous survey] that you were not in the labor force. Which statement best reflects your current employment status?

	Still not in the labor force	Now have a job	Unemployed and looking	Retired	None of these	Obs	MOSE
lr003dd: job status after not in labor force	65.0	3.5	7.2	2.7	21.6	521	+/- 4

lr003ee: Which statement best reflects your current employment status?

	I have a job	I am on sick or other leave	I am temporarily laid off from my job	I am unemployed and looking for work	I am retired	I am not in the labor force	None of these, please specify	Obs	MOSE
lr003ee: job status unknown labor force status	50.2	1.3	2.0	10.6	13.3	8.9	13.7	248	+/- 6

lr004: Respondent is current employed - filled based on responses from lr001 through lr003a.

	1 Yes	2 No	Obs	MOSE
lr004: R currently has a job	57.8	42.2	6919	+/- 1

lr005: [IF lr004 = 1] In your primary job, are you self-employed or do you work for an employer?

	1 Self-employed	2 Work for an employer	3 Other (specify) lr005_other	Obs	MOSE
lr005: self employed or work for employer	11.1	87.9	1.0	3904	+/- 2

Ir019s: [IF Ir004 = 1] Do any of the following describe your primary job? Please check all that apply.

	No	Yes	Obs	MOSE
Ir019s1: Independent contractor (for example, freelance worker, Uber driver, Instacart wo	90.6	9.4	3886	+/- 2
Ir019s2: On-call worker or day laborer	94.5	5.5	3886	+/- 2
Ir019s3: Temporary agency worker	99.0	1.0	3886	+/- 2
Ir019s4: Contract company worker	84.9	15.1	3886	+/- 2
Ir019s5: None of the above	30.2	69.8	3886	+/- 2

Ir006: [IF Ir004 = 1] Out of the past seven days, how many days did you work at your job?

	1	2	3	4	5	6	7	8	Obs	MOSE
Ir006: how many day work past seven days	4.0	1.5	3.2	6.6	9.4	59.7	8.6	7.1	3900	+/- 2

Ir008: [IF Ir004 = 1] Think of every day you worked in the past seven days. How many total hours did you work for pay across all the days?

	Mean	Obs	MOSE
Ir008: home many hours work for pay past 7 days	37.4	3890	+/- 2

Ir007: [IF Ir004 = 1] Out of the past seven days, how many days did you work from home?

	1	2	3	4	5	6	7	8	Obs	MOSE
Ir007: how many day work from home past seven days	63.7	4.6	5.1	3.7	3.8	15.2	1.1	2.9	3902	+/- 2

lb004: [if Ir007=0] Consider your current job. Are you able to do that job from home at least partially?

	1 Yes	2 No	Obs	MOSE
lb004: able to work from home	22.4	77.6	2330	+/- 2

lb005: [if Ir007 > 0 OR lb005 = 1] Looking ahead to the next three months, how often would you like to work from home, whether you think you will be able to or not?

	1 5+ days per week	2 4 days per week	3 3 days per week	4 2 days per week	5 1 day per week	6 Less than 1 day per week	7 Never	Obs	MOSE
lb005: how often like to work from home	40.2	8.4	14.5	14.2	8.3	6.1	8.2	2170	+/- 2

lb006: Looking ahead to the next three months, how often is your employer planning for you to work from home?

	1 5+ days per week	2 4 days per week	3 3 days per week	4 2 days per week	5 1 day per week	6 Less than 1 day per week	7 Never	8 I dont know	Obs	MOSE
lb006: how often employer planning to work from home next six months	29.3	5.0	7.1	9.7	5.2	8.0	21.5	14.3	1817	+/- 2

Ir010: [IF Ir004 = 1] How frequently are you paid for your job?

	1 Monthly	2 Every two weeks	3 Every week	4 Every day	5 Other (specify) Ir010_other	6 Twice a month	Obs	MOSE
Ir010: how frequently paid	9.4	45.7	18.4	1.7	3.1	21.7	3898	+/- 2

Ir011: [IF Ir004 = 1] What was the amount on your most recent paycheck?

	Mean	Obs	MOSE
Ir011: amount most recent paycheck	2514.1	3791	+/- 2

lr011c: [If lr010==4 | lr010==5 | lr005==1]. Overall, taking into account all sources of income related to your job(s) and/or business, what was your income or “take home pay” in the past month?

	Mean	Obs	MOSE
lr011c: takeaway amount last month	5458.0	479	+/- 4

lr015: [IF lr004 = 1] The coronavirus may cause economic challenges for some people regardless of whether they are actually infected. What is the percent chance that you will lose your job because of the coronavirus within the next three months?

	Mean	Obs	MOSE
lr015: percent chance you lose your job	9.0	3895	+/- 2

lr026: [IF lr004 = 1] How often does your job currently require you to come within six feet of other people (such as customers, clients, patients, or coworkers)?

	1 Never	2 Less than once per week	3 1-2 times per week	4 Several times per week	5 Nearly every day	6 Every day	7	8	9	10	Obs	MOSE
lr026: currently interaction within six feet	21.8	7.6	7.4	9.3	13.5	40.4	0.0	0.0	0.0	0.0	3897	+/- 2
lr026c_2: how flexible work schedule to accommodate children school and aftercare hours	10.7	3.2	4.0	3.0	10.3	5.6	10.0	10.4	6.4	36.4	1285	+/- 3
lr026c_3: how flexible work schedule to accommodate possible school closures due to COVID	10.1	4.0	3.8	3.4	10.4	6.3	6.9	10.9	6.3	38.0	1284	+/- 3

7. Economic Insecurity

ei001: The coronavirus may cause economic challenges for some people regardless of whether they are actually infected. What is the percent chance you will run out of money because of the coronavirus in the next three months?

	Mean	Obs	MOSE
ei001: chance run out of money	14.1	6886	+/- 1

ei002: In the past seven days, were you worried you would run out of food because of a lack of money or other resources?

	1 Yes	2 No	3 Unsure	Obs	MOSE
ei002: worried you would run out of food	7.0	90.0	3.0	6899	+/- 1

ei003: In the past seven days, did you eat less than you thought you should because of a lack of money or other resources?

	1 Yes	2 No	3 Unsure	Obs	MOSE
ei003: did you eat less	7.3	90.3	2.4	6898	+/- 1

ei004: In the past seven days, did you go without eating for a whole day because of a lack of money or other resources?

	1 Yes	2 No	3 Unsure	Obs	MOSE
ei004: did you go without eating	3.2	94.7	2.1	6895	+/- 1

ei011: Do you have a mortgage?

	1 Yes	2 No	Obs	MOSE
ei011: do you have a mortgage	37.8	62.2	6896	+/- 1

ei012: [IF ei011 = 1] Have you received permission from your lender to delay or reduce payment on your mortgage?

	1 Yes	2 No	Obs	MOSE
ei012: permission to delay mortgage payment	10.5	89.5	2780	+/- 2

ei013: [IF ei011 = 1] In the past month, did you miss or delay payment on your mortgage, or did you pay less than the full amount?

	1 Yes	2 No	Obs	MOSE
ei013: past month delay payment on mortgage	3.5	96.5	2780	+/- 2

ei014: Do you rent your primary residence?

	1 Yes	2 No	Obs	MOSE
ei014: rent primary residence	30.2	69.8	6896	+/- 1

ei015: [IF ei014 = 1] Have you received permission from your landlord to delay or reduce payment of your rent?

	1 Yes	2 No	Obs	MOSE
ei015: permission to delay or reduce rent payment	8.7	91.3	1946	+/- 2

ei016: [IF ei014 = 1] In the past month, did you miss or delay payment of your rent, or did you pay less than the full amount?

	1 Yes	2 No	Obs	MOSE
ei016: past month missed or delay rent payment	9.9	90.1	1944	+/- 2

ei017: How confident are you that you could come up with \$2,000 if an unexpected need arose within the next month?

	Certain Yes	Probably	Probably Not	Certain No	Don't know	Prefer not to say	Obs	MOSE
ei017: How confident	56.7	11.1	6.2	12.8	7.9	5.3	6896	+/- 1

ei019: In the past seven days, has anything belonging to you been stolen, such as a wallet or purse, clothing, jewelry, things in your home, or things in your vehicle?

	1 Yes	2 No	3 Unsure	Obs	MOSE
ei019: something been stolen in last 7 days	1.4	95.7	2.9	6895	+/- 1

ei030: Since April 1, have you been evicted or foreclosed, received an eviction or foreclosure notice, or been told by a landlord to move from your residence?

	Yes, I have been or currently am in process	Yes, I have received written notice	Yes, I have received oral notice but not written	No	Does not apply	Obs	MOSE
ei030: have you been evicted or foreclosed, received an eviction or foreclosure notice	0.5	0.4	0.5	48.2	50.5	6896	+/- 1

ei031: [if ei030 is NOT Yes, I have been or am currently being, evicted or foreclosed from my residence] What is the percent chance that you will be evicted, go into foreclosure, or be forced by a landlord to move from your current residence in the next thirty days? If you are not sure, please give your best guess.

	Mean	Obs	MOSE
ei031: chance will be evicted	7.3	3303	+/- 2
ei031_nas1: Does not apply to my housing situation	1.0	3561	+/- 2

8. Crime

ei020: Do you agree or disagree with each of the following statements?

	1 Strongly disagree	2 Disagree	3 Agree	4 Strongly agree	Obs	MOSE
ei020: My neighborhood is clean	2.8	8.4	51.6	37.2	6890	+/- 1

ei021: Do you agree or disagree with each of the following statements?

	1 Strongly disagree	2 Disagree	3 Agree	4 Strongly agree	Obs	MOSE
ei021: There is too much crime in my neighborhood	39.9	45.1	11.7	3.3	6894	+/- 1

ei022: Do you agree or disagree with each of the following statements?

	1 Strongly disagree	2 Disagree	3 Agree	4 Strongly agree	Obs	MOSE
ei022: Vandalism is common in my neighborhood	44.1	43.8	9.2	2.9	6894	+/- 1

ei023: Do you agree or disagree with each of the following statements?

	1 Strongly disagree	2 Disagree	3 Agree	4 Strongly agree	Obs	MOSE
ei023: There are too many people hanging around on the streets near my home	46.3	40.5	10.1	3.1	6895	+/- 1