



California Work and Health Survey 2023 Technical Documentation

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Overview

The California Work and Health Survey is a population-based survey of 4,014 California residents, aged 18-70, conducted between November 2022 and May 2023. It was developed as part of the [California Labor Lab](#), a NIOSH Center of Excellence for *Total Worker Health*®

The survey was conducted by telephone interview or self-completed by participants using a web-based application. All survey administration was handled by Davis Research, LLP. Median completion time was 41 minutes for telephone and 24 for web-based surveys. Regardless of the method of completion, participants received a \$10 gift card in appreciation of their time and effort.

As its name implies, the purpose of the survey was to capture information about the employment and health status of California adults. There are three major sections of the questionnaire, [described in more detail below](#). The first – and longest – section focuses on employment. One special feature of the survey is the collection of information on jobs not worked at in the past week but were worked at in the past month. The rationale is that alternative and contingent forms of employment may be episodic and less likely to be captured in data collection solely about the week prior to interview. The survey includes detailed questions about employment status and, among those working, work arrangements, working conditions, and occupation and industry of the job. Participants are asked about the main job that they held in the past week, defined as the one with the most hours, as well as a second job worked in the past week. Participants who were not working in the past week were asked the same series of questions about a main job that they held in the past month, if any. Participants who were not currently employed were asked when they had last worked. Currently employed respondents were also asked about their longest job held.

The health section includes questions about overall physical and mental health status, along with questions concerning chronic illness diagnoses, functional limitations, pain and other symptoms, perceived stress, occupational injury, height, weight, health behaviors, and health insurance coverage.

The final section includes basic demographic information, including household composition, paid and unpaid caregiving for household/family members, household income and individual earnings, benefit reciprocity, and financial strain.

After data collection was completed, sampling weights were developed so that the responses are generalizable to the non-institutionalized California population, aged 18-70. More details on the weighting process are available below.

Sampling Methodology

Sampling Frame

Because approximately 98% of all adults in the target population (Californians 18-70) have a cell phone, only cell phone numbers were used for this project. Random samples of cell phone telephone numbers were purchased from a supplier of telephone samples, using a split frame methodology. The listings included both a pure random digit dial (RDD) sample of cell phone numbers with California area codes and a set of listed cellular numbers of people currently living in the state, regardless of area code. Split frames provide the best chance to include a probability selection for nearly every cellular telephone in California, since so many residents have an area code that was generated outside of the State of California and would be otherwise excluded from the sample frame. To ensure a wide range of income strata in the sample, the listings included phone numbers on both pre-paid and post-paid plans.

This sampling methodology of individuals (via cell phones) negated the need for respondent selection procedures when multiple household members share a landline. It also simplified the post-survey statistical weighting process, [described below](#).

Participation Rates

From 134,725 call attempts, we made 15,164 contacts with potential participants. A total of 9,024 individuals declined to participate or did not complete the interview. A further 2,126 were ineligible due to age, language (neither Spanish nor English), or residence outside of California. A total of 4,014 responded to the survey (26% of contacts made; 31% of contacts after excluding the 2,126 known to be ineligible). A detailed flow chart is included in [Appendix 3](#).

Data Collection Methods

The survey was administered in English and Spanish either by telephone from Davis's computer-assisted telephone interviewing (CATI) call center in Calabasas or by completing an on-line version. Up to eight call attempts were made to reach and interview an eligible subject at each usable telephone listing. Callbacks were made throughout the day and evening hours seven days a week, excluding holidays. Additional call attempts were made to respondents who were found to be eligible for the survey but who did not complete the survey immediately after being administered the survey screening. Those who could not be re-contacted after repeated attempts were then sent email and text message invitations encouraging them to complete the survey online. Because of the length of the survey, many respondents were screened initially over the telephone and then offered the option to finish the study online; they were sent a text or e-mail with directions to finish. If they did not complete the survey online, they received additional telephone calls. Most respondents who began the survey (70%) ultimately completed it.

Screening questions were administered at the beginning of the survey to identify eligible respondents ages 18 to 70 within California. Once identified, eligible respondents were provided with a broad description of the study, its objectives, sponsorship, and auspices. To encourage participation, respondents were offered an incentive of \$10 sent via check or e-gift card from a national retailer.

Weighting Strategy

Sample adjustment weights were developed to bring the survey sample into alignment with known characteristics of the population of California adults ages 18-70, using a common procedure known as raking, also referred to as sample balancing. Raking is an iterative process in which survey estimates are controlled to their marginal population distributions.¹ The raking process can be thought of as a multidimensional poststratification procedure because the weights are post-stratified to one set (or dimension) of control totals, and these adjusted weights are post-stratified to another dimension. This process is then iterated until the control totals for all dimensions are simultaneously satisfied, resulting in the production of a final single weighting assignment for each respondent.

The population estimates of demographic variables (age, sex, and race/ethnicity), geographic variables (counties or combinations of counties), and socio-economic variables (educational attainment and employment status) of the population of California adults ages 18-70 were derived from the U.S. Census Bureau's 2021 American Community Survey (ACS) and from the Bureau of Labor Statistics.

The specific variables used in creating the weighting targets (either alone or in combination with one another) included: geographic region, sex, age, race and ethnicity, educational attainment, Supplemental Nutrition Assistance Program (SNAP) benefit reciprocity, labor force participation, and having a pre-paid cellphone plan.

The sample weights [weight] are proportional to the total sample size. These weights range from 0.8 to 6.0 and sum to 4,014. The datafile also includes an expansion weight [weight_pop], which sums to the 2022 California population aged 18-70. These weights range from 534 – 40106 and sum to 26,83,0156. Both weights yield the same percentage of the population for any given characteristic. The sample weight is more useful in calculating statistical significance since it is scaled to the actual sample size of 4,014; the expansion weight permits estimates of how many individuals in the State have a characteristic.

Questionnaire Sections, Usage Notes, and Instruments

The questionnaire began with a screening section, designed to ascertain eligibility for the survey (California residence and age 18-70). The verbal consent to participate was also included at this point in the survey, and sex ascertained to facilitate future skip patterns.

Throughout the questionnaire, variables were coded with -9 to indicate non-response (decline to answer for any reason). Prior to any analyses, users should drop, recode, or impute these values. A missing value in the survey indicates that the respondent was not part of the universe for this question, i.e. that the item was logically skipped in the questionnaire, such as employment questions for those not working.

The sections of the main questionnaire, and any relevant usage notes, are enumerated below:

Employment Section (Q001–163)

The initial questions (Q001–017) determined employment status in the past 7 days, following the methodology of the Current Population Survey administered by the U.S. Bureau of the Census for the Bureau of Labor Statistics.² This part of the questionnaire also provided information about extent of work in the past year, and when last worked.

Questions Q018 – Q058 constituted the “Job Battery.” These items contained detail about respondents’ current jobs, including occupation and industry; employment arrangements³ including self-employment, independent contracting, on-call employment, working for a temporary hiring agency, and having one’s work contracted out; contingent employment defined as work not expected to continue; and working conditions such as the physical and psychosocial demands⁴ of jobs, supervisorial and subordinate status, nature of shift, and flexibility of work.

Currently employed participants were asked about the job that they worked at most in the past 7 days. Those not working in the past 7 days were asked the same series of questions about the job that they worked at in the past 30 days. Participants with more than 1 job (in the past 7 or 30 days) were asked the same basic series of questions about a second job. To reduce respondent burden, fewer questions were asked about a second job in the past week. As a reference –

Q018 - Q058 refer to the job worked (the most hours) in the past 7 days.

Q059 - Q099 refer to the 2nd job worked in the past 7 days.

Q102- Q142 refer to the job worked in the past 30 days (but not the past 7 days).

Occupation and Industry coding. Occupation and Industry data were collected as text responses in the job battery sections above. The NIOSH Occupational Computerized Coding System (NIOCCS)⁵ was used to apply SOC and NAICS codes to the responses. NIOCCS provides a reliability score along with each code. Any response with a reliability <0.8 was manually coded by investigators and staff of the CA Labor Lab, with a secondary review if questions still remained. The codes were applied at the most detailed level possible from the response (up to 6-digits), but at times the responses could not be categorized beyond a 2- or 3-digit code. For all coded responses, a 2-digit and 3-digit level code was created in order to provide increased sample size in each category. Note that the top-level of some NAICS industry codes actually comprise several 2-digit codes (manufacturing [31-33], retail trade [44-45], transportation & warehousing [48-49]). For the 2-digit codes, only the first numbers in each series were used.

ABC Criteria (Q033a-c). The “ABC” criteria are used in California courts to determine appropriate classification as an independent contractor.⁶ As part of the project, we developed measures of the ABC criteria for inclusion in this self-reported survey. These items were asked of people who identified

themselves as independent contractors, as app-based workers, and/or those who stated that they received a 1099 tax form.

Note that Q033b is also a text response, asking for the industry of the company. The intent is to compare the industry identified initially by the respondent with this industry. As of this writing, that comparison has not been made; we have simply provided the codes corresponding to the text response, using the same method as above.

Main and Second Jobs. As described above, respondents answered questions about one or two jobs held in the past week, one job in the past week and one in the past month, or a single job held in the past month (if they did not work in the past week). The flow of the questionnaire resulted in three different sets of job battery questions – the first 7-day job, the second 7-day job, and the 30-day job. The 30-day job could either be the only job described, or it could be the second job described, depending on the individual respondent’s situation. To allow for another way of analyzing these jobs, an alternate set of job battery variables is included in the datafile, referred to as ‘main’ and ‘second’ jobs. The main job variables (with suffix “mn”) include the responses to either the first 7-day job or the 30-day job when the respondent didn’t work in the past week. The second job variables (with suffix “sc”) include responses to either the second 7-day job or the 30-day job when the respondent had only 1 job in the past week. These variables are listed in a separate section of [Appendix 2](#). Two variables, [mainjobtype] and [secondjobtype], identify whether the responses are related to a job held in the past 7 days or the past 30 days.

Health Section (Q164–201)

This section included brief assessments of overall physical and mental health status derived from the PROMIS Global Health 1.2 measures⁷, specific common chronic conditions, common symptoms, and physical functioning and limitations, all based on the National Health Interview Survey⁸. It also included the 4-item Perceived Stress Scale.⁹ Employed and recently employed respondents were asked about workplace injuries. The questionnaire asked about health behaviors, including smoking, alcohol use, and physical activity, derived from the Behavioral Risk Factor Surveillance Survey.¹⁰ Height and weight were also queried. The section ended with questions on health care utilization and health insurance coverage.

Chronic conditions. Respondents were asked if they have or are being treated for a chronic condition, defined as a long-term condition that has already lasted or can be expected to last for three months or more. Those who replied affirmatively were asked a list of specific conditions. Some such individuals responded negatively to each of the individual conditions, either because they had one that was not listed, or they were unfamiliar with the name of the condition. We have retained their initial positive response to the screening question.

Demographics Section (Q205–228)

In addition to age and sex, which were ascertained in the screening questions, this section included basic sociodemographic questions – marital status, education (self and spouse, if any), household size and composition, race, ethnicity, nativity, and language spoken at home. Latino, Asian, and Pacific Islander respondents were asked to what country or countries they trace their ancestry, and those born

outside the US were asked their country of origin. It also included questions about caregiving for children and adult family members.

Race and Ethnicity. Respondents selected as many racial categories as applied, in keeping with common practice. However, respondents could also select Latino as a ‘race’ category, rather than requiring them to select a non-Latino race category and then ask about Latino ethnicity separately. Respondents who did not select ‘Latino’ in the initial question were asked if they are of Hispanic origin. Thus, the Census model of separately reporting Hispanic ethnicity and race can be reconstructed here, if need be.

Finances Section (Q229–238)

This section included questions on levels of household income and individual earnings, kinds of income received, benefit reciprocity, home ownership, homelessness, and financial strain.

Poverty Level Income. The questionnaire was designed to determine if respondents had household incomes that were at or below 125% of the 2021 Federal Poverty Guidelines, based on their reported household income levels and household size. The CWHS estimate of this poverty level is substantially higher than the California component of other national surveys. One reason is that the CWHS asked more generally about household income than other surveys; it is also possible that respondents misunderstood the meaning of ‘household’ and included people in the response to the question about household size who were not actually supported by the household income. In support of this hypothesis, poverty rates match other surveys’ estimates more closely for small households. Although the poverty rate may not match other surveys, respondents at or under the poverty line in the survey did report other characteristics consistent with low household income, for example low individual earnings, high rates of public benefit reciprocity, and reports of experiencing food, housing, and medical care insecurity. The cautious strategy is to use the CWHS poverty variable as a measure of economic level and relative economic position rather than as a way of characterizing the extent of poverty in the State.

Data Issues

Missing Data. The CWHS is a complex survey, with a vast number of embedded conditional statements controlling which questions are presented to the interviewer (or respondent in the case of self-completed surveys). The survey team put the questionnaire through rigorous and repeated tests to ensure accuracy of the underlying logic. Nevertheless, errors arose, mainly due to human error in interpreting the questions or responses. The most noteworthy of these resulted in 34 individuals (0.8% of all respondents) being skipped from the job battery section, even though they appear to have had jobs in the 7 days prior to interview. For any analysis of employment characteristics, these responses should be dropped or imputed. They are indicated with a flag variable called [missingemployedflag]. The individual job battery questions for these respondents are coded with -5.

On call work (Q040a/Q081a/Q124a). In an early version of the survey, the items about working on-call included neither the timeframe nor the definition of on-call work, resulting in a very high proportion of respondents endorsing on-call work (30% among the first 1,204 respondents who worked in the past 7 days). Subsequently, the question was changed to match the CPS Contingent and Alternative Work Supplement questionnaire from 2017.³ In order to use the first set of respondents, we performed an imputation procedure to fill the responses to the corrected question, had they been asked. Random hot-deck imputation¹¹ was used to impute missing values for participants who answered the old version of the questions (recipients) based on the observed values of respondents who answered the new version

of the questions (donors) and were similar to the recipients in relevant variables, based on statistical consideration and the investigators' subjective knowledge of the questions being imputed. A random forest technique was used to evaluate the importance of each variable to predict the response to the new version of the questions, and then investigators evaluated the important variables identified by the random forest based on their subjective knowledge of these variables. For the three questions to be imputed the following variables were selected: survey language, delivery method (phone or web), working part-time and part-year (vs other work patterns), working rotating or variable shifts (vs. other kinds of shifts), and if the job offered health insurance.

Donor pools were created for recipients with same values of the five relevant variables. Then one donor from each recipient's donor pool was randomly selected for the recipient, and the recipient's missing value was replaced with the observed response from the donor. The imputation procedure substantially reduced the estimate of on-call work from 30% to 5.5% (in the main 7-day job).

The variables [q040a_flag; q081a_flag; q124a_flag] indicate which respondents had their answers imputed. The original variables (q040, q081, q124) are also included in the file, for comparison. They should not be used in any analysis.

Perceived Stress Scale (Q176) The 'never' category in the Perceived Stress Scale (PSS) was inadvertently left off the questionnaire, and therefore the lowest value response was 'almost never'. Although this will make the PSS scoring less comparable to other published results, we believe that the responses can still be used to indicate high levels of perceived stress.

Acknowledging the Survey and Funding Source

Users of the California Work and Health Survey dataset must acknowledge support from the California Labor Lab and its funder in all publications and presentations.

Here is the text to use:

This research was supported by the California Labor Laboratory, a National Institute for Occupational Safety and Health Center of Excellence for *Total Worker Health*[®] (Grant: U19OH012293).

The views expressed in written materials do not necessarily reflect the official policies of the Department of Health and Human Services (HHS), Centers for Disease Control and Prevention (CDC) or the National Institute for Occupational Safety and Health (NIOSH) nor does the mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government. *Total Worker Health*[®] is a registered trademark of HHS.

Citations

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Appendix 1: Questionnaire, with variable names

2023 CALIFORNIA WORK AND HEALTH SURVEY

Variable names shown in [square brackets] either on the left margin or directly below the question. They are usually the same as the question number. (Items marked with ** have been deleted from public use dataset.) For every item in the survey, the value -9 refers to a question that was asked but not answered by the participant.

SURVEY ADMINISTRATION QUESTIONS

[SERIAL]	NUMERIC ID NUMBER	_____
[ID]	ALPHANUMERIC ID NUMBER	_____
[PATH]	TYPE OF DATA COLLECTION	TELEPHONE 1 WEB (SELF-COMPLETED)..... 2
[DATE]	**DATE OF INTERVIEW**	_____
[LANGUAGE]	LANGUAGE OF INTERVIEW	ENGLISH 1 SPANISH 2
[STATUS_ REVISION]	**PHASE OF INTERVIEW**	1 ST PRE-TEST 1 2 ND PRE-TEST 2 3 RD PRE-TEST 3 FINAL VERSION 4
[PREPAID_INDICATOR]	RESPONDENT REACHED ON PRE-PAID CELL PHONE	YES 1 NO..... 0
[LOI]	LENGTH OF INTERVIEW, MINUTES	_____
[MISSING_PERCENT]	PERCENT OF ASKED QUESTIONS WHICH RESPONDENT DID NOT ANSWER	_____
[WEIGHT]	PROPORTIONAL SAMPLING WEIGHT, ALIGNS TO CA POPULATION AGED 18-70	_____ (RANGE: 0.08 – 6.0)
[WEIGHT_POP]	POPULATION WEIGHT, SUMS TO CA POPULATION AGED 18-70	_____ (RANGE: 534 – 40,000)

INITIAL SCREENING QUESTIONS

[A1A] What is your age? _____

IF PREFER NOT TO ANSWER, ASK:

[A1B]	We don't need to know exactly, but which of the following age categories are you? (READ CATEGORIES)	18-20 years old 1 21-24..... 2 25-29..... 3 30-39..... 4 40-44..... 5 45-49..... 6 50-59..... 7 60-64..... 8 65-70..... 9 OVER 70 10
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[A1c]	How would you describe your gender? (READ CATEGORIES AS NEEDED) (IF REFUSED, PLEASE SELECT GENDER ON VOICE)	MALE..... 1 FEMALE..... 2 TRANSGENDER MALE 3 TRANSGENDER FEMALE 4 NON-BINARY 5
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SUMMARY EMPLOYMENT VARIABLES

THE FOLLOWING VARIABLES ARE CALCULATED BASED ON COMBINED RESPONSES TO SOME OF THE EMPLOYMENT STATUS QUESTIONS THAT FOLLOW:

[CURR_EMP]	Calculated variable for employed in past week. Defined as: Q001=1 OR Q001A=1,2,3 OR Q002=1	YES	1
		NO	0
[THIRTYDAY]	Working at a job in past 30 days, different than job worked in past 7 days (if any).	YES	1
		NO	0
[ANYSMONTH]	Working in past 7 days, or in past 30 days Defined as: CURR_EMP = 1 OR THIRTYDAY = 1	YES	1
		NO	0
[MONTHEMPSTATUS]	Detailed employment status in month/week	NOT WORKING	0
		1 JOB IN 7 DAYS (ONLY)	1
		2+ JOBS IN 7 DAYS	2
		1 JOB IN PAST 30 DAYS (ONLY)	3
		2+ JOBS IN PAST 30 DAYS	4
		JOB IN PAST 7 DAYS & JOB IN PAST 30 DAYS.....	5
[MISSINGEMPLOYED]	Respondent is currently employed but job battery information is missing.	YES	1
		NO	0

2023 CALIFORNIA WORK AND HEALTH SURVEY

EMPLOYMENT QUESTIONS

We'll begin by asking about your work in the past week. We're interested in *all* the work you did for pay or profit, whether in a formal job with definite work on a continuing basis, as a business owner or an independent contractor, or informal work or odd jobs you took on for pay.

- [Q001] What were you doing most of last week? Were you working, were you not at work but had a job, were you looking for work, keeping house, going to school, unable to work, retired, or what?
(ACCEPT ONLY ONE RESPONSE)
- | | |
|----------------------------------|--------------|
| WORKING | 1 SKIP TO Q3 |
| NOT AT WORK, BUT HAD A JOB | 2 |
| LOOKING FOR WORK | 3 |
| KEEPING HOUSE | 4 |
| GOING TO SCHOOL..... | 5 |
| UNABLE TO WORK | 6 |
| RETIRED | 7 |
| OTHER (SPECIFY) | 8 |
| [Q001_OTHER_SPECIFY] | |

IF NOT WORKING BUT HAD A JOB (Q001 = 2) ASK:

- | | |
|---|---|
| [Q001A] What was the main reason you were not at work last week ? | On vacation 1 SKIP TO Q3
Illness, bad weather,
or labor dispute 2 SKIP TO Q3
Issues with childcare 3 SKIP TO Q3
Temporary lay-off 4 SKIP TO Q9
Indefinite lay-off..... 5 SKIP TO Q9
About to start a new job
in the next 30 days 6 SKIP TO Q15
-or -some other reason 7 SKIP TO Q10
DON'T KNOW SKIP TO Q10 |
|---|---|

IF LOOKING FOR WORK, KEEPING HOUSE, GOING TO SCHOOL, UNABLE TO WORK, RETIRED, OTHER (Q1=3-8), ASK:

- | | |
|--|--|
| [Q002] Did you do any work at all last week for pay or profit? This could include informal paid jobs like driving others, doing errands or repairs, or providing care to people inside or outside of your family, or unpaid work in a family farm or business? | YES 1 GO TO Q3
NO 0 SEE BELOW |
|--|--|

IF DID NOT WORK IN THE LAST WEEK & NOT LOOKING FOR WORK (Q002=0 AND Q001=4,5,6,7 OR 8), GO TO Q10
IF LOOKING FOR WORK (Q001=3), GO TO Q11

IF CURRENTLY EMPLOYED (CURR_EMP = 1), ASK:

- | | |
|---|---|
| [Q003] Did you have only one paying job or more than one job last week? Include part-time work done in the daytime, evenings or weekends. | ONLY ONE JOB..... 1 (GO TO Q005)
MORE THAN ONE JOB2 |
|---|---|

IF HAS MORE THAN ONE JOB (Q003=2), ASK:

- | | |
|---|------------|
| [Q004] Altogether, how many different paying jobs did you have last week? | _____ JOBS |
|---|------------|

- | | |
|---|-------------|
| [Q005] How many hours in total did you work (at all your jobs) last week? | _____ HOURS |
|---|-------------|

IF 35 HOURS OR MORE, GO TO Q016

IF WORKED LESS THAN 35 HOURS OR DK, ASK:

[Q006] Do you usually work 35 hours or more a week at (this job)/these jobs? YES1 **GO TO Q016**
NO 0

(THERE IS NO Q7)

IF Q006=0, ASK:

[Q008] Would you prefer to work full-time (that is, 35 hours a week or more)? YES1
NO0

ALL RESPONDENTS TO Q008 GO TO Q016

IF TEMPORARILY OR INDEFINITELY LAID OFF (Q001A=4 OR 5), ASK:

[Q009] How many weeks ago were you laid off? Just your best estimate. _____ WEEKS
(RECORD "0" IF THIS HAPPENED IN THE LAST WEEK)

IF NOT CURRENTLY EMPLOYED (Q002=0 AND Q001=4,5,6,7,8) OR (Q001A=4,5,7 OR DK), ASK:

[Q010] Have you been looking for work during the past four weeks? YES1
NO0

IF LOOKING FOR WORK [Q010=1 OR (Q001=3 AND Q002=2)], ASK:

[Q011] How many weeks have you been looking for work? Just your best estimate. _____ WEEKS

THERE IS NO Q 12. IF NOT LOOKING FOR WORK (Q010=0,) ASK:

[Q013] Do you want a regular job now, either full-time or part-time? YES1
NO0

[Q014] Do you intend to look for work of any kind in the next 12 months? YES1
NO0

[Q015] How many years has it been since you last worked at a job or business, either part-time or full-time?
CURRENTLY EMPLOYED 0 (GO TO Q16)
1 YEAR AGO OR LESS 1 (GO TO Q16)
1 TO 3 YEARS 2 (SKIP TO Q143)
MORE THAN 3 YEARS 3 (SKIP TO Q161)
NEVER WORKED 4 (SKIP TO Q164)
NOT ANSWERED -9 (SKIP TO Q143)

IF CURRENTLY EMPLOYED (Q002=1) OR WORKED IN THE PAST YEAR (Q015=1), ASK:

[Q016] During the last 12 months, how many weeks were you working for pay even if only for a few hours? _____ WEEKS
Include paid vacation and sick leave as work.

[Q017] During the last 12 months, how many hours a week did you usually work (when you were working)? _____ HOURS
IF CURRENTLY EMPLOYED GO TO Q018
IF WORKED IN PAST YEAR GO TO Q100

THE "JOB BATTERY" -- QUESTIONS ABOUT CURRENT AND RECENT JOBS

Each respondent can complete up to 2 job battery series, although some questions are only asked about the first job reported.

Q018 – Q058 refer to the job worked (the most hours) in the past 7 days.

Q059 – Q099 refer to the 2nd job worked in the past 7 days.

Q102-Q142 refer to the job worked in the past 30 days (but not the past 7 days).

Note that the text of the questions is not repeated here. There are slight variations in the wording, just to clarify to the respondent which job is being queried. The question numbers are included in [brackets]. If there are only 2 question numbers for a given question, it indicates that this question is only asked for the first job and is included in the 1st 7-day series and the 30-day series, as appropriate.

IF CURRENTLY EMPLOYED, ASK:

The next series of questions are about your current/main job or business.

18. What is your occupation? What kind of work do you do? [Q018/Q059/Q102]
What are your usual activities or duties?

[Q018_CODE/Q059_CODE/Q102_CODE]	Up to 6-digit Standard Occupational Classification (SOC) code based on text response.
[Q018_2DIG/Q059_2DIG/Q102_2DIG]	First 2 digits of assigned SOC code.
[Q018_3DIG/Q059_3DIG/Q102_3DIG]	First 3 digits of assigned SOC code.

19. Altogether, how long have you worked in your present occupation?
How many years? (Just your best estimate).

_____ YEARS
[Q019YRS/Q060YRS/Q103YRS]

20. What kind of business or industry do you work in?
(What do they make or do at this business)? [Q020/Q061/Q104]

[Q020_CODE/Q061_CODE/Q104_CODE]	Up to 6-digit North American Industry Classification System (NAICS) code based on text response.
[Q020_2DIG/Q061_2DIG/Q104_2DIG]	First 2 digits of assigned NAICS code.
[Q020_3DIG/Q061_3DIG/Q104_3DIG]	First 3 digits of assigned NAICS code.

21. How long have you worked for this specific company or organization? How many years? _____ YEARS
[Q021YRS/Q061YRS/Q105YRS]

IF Q021=1, ASK: (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)

22.	During the past 12 months, have you received a promotion?	YES	1
		NO	0
[Q022/Q106]			

IF Q021=0, ASK: (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)

23.	Did your current job represent an improvement in pay or status from a previous job?	YES	1
		NO	0
[Q023/Q107]			

24. (At your main job) Are you self-employed or do you work for someone else? SELF-EMPLOYED 1
WORKING FOR SOMEONE ELSE 0
[Q024/Q065/Q108]

IF SELF-EMPLOYED (Q024=1), ASK:		
25.	Are you self-employed as an independent contractor, independent consultant or freelance worker or something else (such as a business or shop owner)?	INDEPENDENT CONTRACTOR/ CONSULTANT/FREELANCE 1 (GO TO Q27) SOMETHING ELSE 2 (GO TO Q28) DON'T KNOW (GO TO Q28) [Q025/Q066/Q109]
IF WORKS FOR SOMEONE ELSE (Q024=2) ASK:		
26.	Are you an employee of a business or farm that you own?	YES.....1 NO0 [Q026/Q067/Q110]
26a.	Do you work as an independent contractor, independent consultant or freelance worker on this job?	YES.....1 NO0 [Q026a/Q067a/Q110a]
IF AN INDEPENDENT CONTRACTOR (Q25=1 OR Q26A=1), ASK		
27.	Do you work exclusively for one company or customer, or do you work for more than one company or customer?	ONLY ONE..... 1 MORE THAN ONE 2 ONE COMPANY/ MULTIPLE CUSTOMERS 3 [Q027/Q068/Q111]

28. Some workers find short, in-person jobs or tasks through companies that connect them directly with customers or jobs using a website or mobile app. (These companies also coordinate payment for the service through the app). (In your main job,) Have you earned money through companies like these? As a reminder, we are only talking about your main job here, not other jobs you may have done.
- YES.....1
NO0
[Q028/Q069/Q112]

IF Q28 =1, ASK

28a.	Do you know the name of the app company or companies for whom you do this work?	YES1 NO0 [Q028a/Q069a/Q112a]
------	---	--

IF Q28a=1, ASK:		
28a.i.	What is the name of the company or companies? [**APP VARIABLES ARE NAMED Q028AI_/Q069AI_/Q112AI_ FOLLOWED BY COMPANY NAME E.G., Q028AI_UBER**] INDIVIDUAL APPS ARE CATEGORIZED AS FOLLOWS, USING SAME NAMING CONVENTION AS ABOVE (I.E., Q028AI_ SALES): [SALES] [RIDESHARE] [ODDJOB] [ENTERTAINMENT] [DELIVERY] [ASSORTED]	Amazon Flex.....1 Angi.....2 Caviar.....3 DoorDash.....4 Grubhub.....5 Hitch.....6 HopSkipDrive7 Instacart.....8 Lyft.....9 Postmates.....10 Rover.....11 Shipt.....12 TaskRabbit.....13 Thumbtack.....14 Uber.....15 Uber Eats.....16 Other (Specify) 17

29. (At your main job)) how are you usually paid? By paycheck or direct deposit, by personal check, with an Traditional paycheck/direct deposit...1

electronic payment service (such as PayPal, Venmo, Zelle or ApplePay), in cash, or with a prepaid debit card? (NOTE: THIS QUESTION DELETED IN 2 ND JOB BATTERY)	Personal check.....2
	Electronic payment service3
	Cash.....4
	Prepaid debit card.....5
	[Q029/Q113]

IF WORKS FOR SOMEONE ELSE (Q24 = 2), ASK

29a. (At your main job) does the amount you are paid for your work depend on how many hours you work, or are you paid a fixed salary? (NOTE: THIS QUESTION DELETED IN 2 ND JOB BATTERY)	HOURS WORKED1
	FIXED SALARY.....2
	[Q029A/ Q113A]

29a1. Do you get bonuses, tips, or commissions as part of your pay?	YES1
	NO.....0
	[Q029A1/Q070A1/Q113A1]

IF WORKS FOR SOMEONE ELSE (Q24 =2), ASK

29b. (At your main job) does the amount you are paid for your work depend on the number of pieces that you complete for your employer? This is sometimes called "piece rate" or being paid "by piece?" (NOTE: THIS QUESTION DELETED IN 2 ND JOB BATTERY)	YES1
	NO0
	[Q029B/Q113B]

30. Does your employer take any deductions from your pay, such as for income tax or Social Security?	YES.....1
	NO.....0
	[Q030/Q071/Q114]

31. (IF Q19=0, ASK) Which of the following will you receive to file your income taxes at the end of the year, a W2 or a 1099? (IF Q19 ≥ 1, ASK) Did you receive a W2 tax form or a 1099 tax form for the purposes of filing your income taxes at the end of 2021?	W2.....1
	1099.....2
	NEITHER.....3
	[Q031/Q072/Q115]

32. (At your main job/At this other job) in the past 12 months have you done any work for which you expected payment but never received it, or received less than you were expecting?	YES.....1
	NO0
	[Q032/Q073/Q116]

IF SELF-EMPLOYED (Q24=1), OR EMPLOYEE OF A BUSINESS THEY OWN (Q26=1), INDEPENDENT CONTRACTOR (Q26A=1), APP WORKER (Q28=1), OR RECEIVES A 1099 (Q31=2), ASK

33a. In doing this work, who mainly decides how the work is done?	YOU/WORKER DECIDES.....1
	COMPANY DECIDES2
	[Q033A/Q074A/Q117A]
33b. What is the main product or service that this company provides? What do they make or do at this business?	_____
	[Q033B/Q074B/Q117B]
[Q033B_INDCODE/Q074B_INDCODE/ Q117B_INDCODE]	Up to 6-digit North American Industry Classification System (NAICS) code based on text response.
[Q033B_INDCODE_2DIG/Q074B_INDCODE_2DIG/Q117B_INDCODE_2DIG]	First 2 digits of assigned NAICS code.
[Q033B_INDCODE_3DIG/Q074B_INDCODE_3DIG/Q117B_INDCODE_3DIG]	First 3 digits of assigned NAICS code.
33c. For this job, are you in business for yourself?	YES1
	NO0
	[Q033c/Q074c/Q117c]

34. Provided the economy does not change and your job performance is adequate, could you continue working for your current employer as long as you wish? YES 1
NO 0
[Q034/Q075/Q118]

IF Q034=0, ASK

- | | |
|--|---|
| 35. Do you expect this job to end in the next 12 months? | YES 1
NO 0
[Q035/Q076/Q119] |
|--|---|
36. (At your main job/At this other job) are you paid by a temporary employment agency? YES.....1
NO 0
[Q036/Q077/Q120]
37. Some companies provide employees or employee services to others under contract. (At your main job/At this other job) do you work for a company that contracts your services out? YES1
NO 0
[Q037/Q078/Q121]
38. Counting all locations, what are the total number of persons who work for this employer? (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)
- | | |
|-----------------|---------|
| Less than 10 |1 |
| 10-99 |2 |
| 100-1,000 |3 |
| MORE THAN 1,000 |4 |
| DON'T KNOW |DK |
- [Q038/Q122]
39. Which of the following best describes your work schedule (at your main job/at this other job)?
- | | |
|---|--------|
| Regular daytime schedule |1 |
| Regular evening shift |2 |
| Regular nighttime shift |3 |
| Rotating shift (one that changes regularly from days to evenings to nights) |4 |
| Split shift (one consisting of two distinct periods each day) |5 |
| Variable shift (one that changes from day to day) |6 |
- [Q039/Q080/Q123]

NOTE: THE FIRST ~1600 RESPONDENTS ANSWERED Q040_OLD. AFTER THAT TIME Q040A WAS USED, AND RESPONSES FOR RESPONDENTS WHO ORIGINALLY ANSWERED Q040 WERE IMPUTED INTO THE VARIABLES FOR THE UPDATED VERSION OF THE QUESTION.

- | | |
|---|---|
| 40. Are you ever asked to be "on call" for work (at your main job/at this other job)? | YES.....1
NO 0
[Q040_OLD/Q081_OLD/Q124_OLD] |
| 40a. On-call workers are called into work only when they are needed. Were you an on-call worker (at your main job/at this other job) last week? | YES.....1
NO 0
[Q040A/Q081A/Q124A] |
- | | |
|----------------------------------|---|
| [Q040A_FLAG/Q081_FLAG/Q124_FLAG] | RESPONSE WAS IMPUTED.....1
RESPONDENT ANSWERED Q040A ... 0 |
|----------------------------------|---|

41. Are you ever required to work overtime, (at your main job/at this other job)? YES.....1
NO 0
[Q041/Q082/Q125]
42. (At your main job) do you have flexible hours that allow you to vary when you begin and end work? (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)
- | | |
|-----|--------|
| YES |1 |
| NO |0 |
- [Q042/Q126]

43. (At your main job) do you supervise the work of others or tell other employees what work to do? **(NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)** YES.....1
NO0
[Q043/Q127]

44. As part of your regular hours (at your main job) do you work at home – all of the time, some of the time or none of the time? **(NOTE: QUESTION DELETED IN 2ND JOB BATTERY)** ALL OF THE TIME 1
SOME OF THE TIME..... 2
NONE OF THE TIME..... 3
[Q044/Q128]
THERE IS NO Q 45 OR 46

IF WORKS FOR SOMEONE ELSE (Q24=2), ASK:

47. (At your main job) how many days of sick leave are you allowed each year without losing pay? _____ DAYS
(NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY) [Q047/Q131]
UNLIMITED SICK DAYS 1
[Q047_UNLIMITED/Q131_UNLIMITED]

48. I am going to read some characteristics of jobs. Please tell me if you agree or disagree with each statement. **[STATEMENT]** Do you agree or disagree? Would that be strongly, or somewhat? **(NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)**
[Q048_A-H/Q132_A-H]

	AGREE STRONGLY	AGREE SOMEWHAT	DISAGREE SOMEWHAT	DISAGREE STRONGLY
a. My job requires that I learn new things.....	1	2	3	4
b. I have very little freedom to decide how I do my work	1	2	3	4
c. My job allows me to make a lot of decisions on my own	1	2	3	4
d. I have enough time to get the job done	1	2	3	4
e. My job requires working very fast without having breaks	1	2	3	4
f. The person or business I work for keeps track of how quickly I am working to complete my job tasks.....	1	2	3	4
g. I fear that I will lose my job if I do not work fast enough to complete my job tasks.....	1	2	3	4
h. I fear that I will lose my job if I take any time for a break from my job tasks	1	2	3	4

THERE IS NO Q 49

50. How much of the following things do you have to do as part of the duties of your (main) job? Do you have to (ITEM) -- a lot, sometimes, or not at all? **(NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY)**
[Q050_A-H/Q134_A-H]

	A LOT	SOMETIMES	NOT AT ALL
a. walk.....	 1....	 2.....	 3.....
b. use stairs or inclines	 1....	 2.....	 3.....
c. stand for four or more hours on a shift	 1....	 2.....	 3.....
d. sit for long periods	 1....	 2.....	 3.....
e. stoop, crouch or kneel	 1....	 2.....	 3.....

- f. bend over or twist around 1..... 2..... 3.....
- g. lift or carry weights as heavy as 50 pounds 1..... 2..... 3.....
- IF NOT “A LOT” FROM Q50g, ASK:**
- h. lift or carry weights up to 10 pounds..... 1..... 2..... 3.....
- i. repeat the same hand motion at least 30 times per hour 1..... 2..... 3.....
- j. pinch or grasp items or tools 1..... 2..... 3.....
- k. use vibrating or powered hand tools..... 1..... 2..... 3.....
- l. ride in a vehicle..... 1..... 2..... 3.....
- m. use computers or other devices like iPads..... 1..... 2..... 3.....
- n. concentrate for long periods 1..... 2..... 3.....
- o. interact with other people 1..... 2..... 3.....

51. What level of education would you say is required to do your (main) job reasonably well? High school 1
 Associates degree or vocational school 2
 Bachelor's degree (4-year college)..... 3
 Graduate degree..... 4
 (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY) [Q051/Q135]

THERE IS NO Q52

53. The next question asks about “bullying” at work. “Bullying” can include things like being humiliated, constantly criticized or excessively teased. (At your main job) how often do you feel bullied by (ITEM) – never, occasionally or frequently? (NOTE: QUESTION DELETED IN 2ND JOB BATTERY)
 [Q053_A-C/Q137_A-C]

- | | NEVER | OCCASIONALLY | FREQUENTLY | NOT APPLICABLE |
|-------------------------|--------|--------------|------------|----------------|
| a. your supervisor..... | 1..... | 2..... | 3..... | -8..... |
| b. your co-workers..... | 1..... | 2..... | 3..... | -8..... |
| c. customers..... | 1..... | 2..... | 3..... | -8..... |

54. How often do you feel respected by (ITEM) -- never, occasionally or frequently?
 (NOTE: THIS QUESTION DELETED IN 2ND JOB BATTERY) [Q054_A-C/Q138_A-C]

- | | NEVER | OCCASIONALLY | FREQUENTLY | NOT APPLICABLE |
|-------------------------|--------|--------------|------------|----------------|
| a. your supervisor..... | 1..... | 2..... | 3..... | -8..... |
| b. your co-workers..... | 1..... | 2..... | 3..... | -8..... |
| c. customers..... | 1..... | 2..... | 3..... | -8..... |

55. At this job are you covered by a union or employee association contract? YES, COVERED 1
 NO 0
 [Q055/Q096/Q139]

THERE IS NO Q56, Q97, OR Q98

57. At this job does your employer (or temporary agency) offer health insurance to any of its employees? YES 1
 NO 0
 [Q057/Q098/Q141]
 (NOTE: THIS QUESTION NOT ASKED IN 2ND JOB BATTERY IF RESPONDENT HAS ALREADY REPORTED EMPLOYER-BASED INSURANCE IN THEIR 1ST JOB)

IF Q057=1, ASK:

- | | |
|---|---------------------|
| 57a. Are you on this health insurance plan? | YES 1 |
| | NO 0 |
| | [Q057A/Q098A/Q141A] |

58. At this job are you included in any pension, retirement or tax-deferred savings plan? YES, INCLUDED IN PLAN..... 1
NO 0
[Q058/Q099/Q142]

END OF JOB BATTERY.

IF HAS MORE THAN ONE JOB (Q003=2), SAY:

Now I'm going to ask you the same series of questions about (the other job that you had in the past seven days/one of the other jobs that you had in the past seven days, the one that you worked at the most in addition to your main job.)

Q59-Q99: REPEAT Q18-Q58 (JOB BATTERY SERIES)

IF CURRENTLY EMPLOYED (CURR_EMP = 1) OR WORKED IN THE PAST YEAR (Q015=1), ASK

100.	(Other than your main job/Other than the jobs you just told me about) did you do any work for pay or profit in the past month? Include any formal jobs you held as well as odd or side jobs like driving people places or doing errands or fixing things, or other kinds of task work.	YES..... 1 NO 0 [Q100]
[THIRTYDAY]	Calculated variable for "had a job in past thirty days which they did not work in the past seven days." Defined as: Q100 = 1	YES 1 NO 0
[ANYSMONTH]	Calculated variable for "worked within the past month." Defined as: CURR_EMP = 1 OR THIRTYDAY = 1	YES 1 NO 0

IF Q100=1, ASK

100a.	How many (other) jobs did you have in the past month?	_____ JOBS [Q100A]
IF HAS MORE THAN ONE JOB (Q003=2) OR HAS ONE JOB AND DID OTHER WORK FOR PAY IN THE PAST MONTH (Q003=1 AND Q100=1), ASK:		
101.	Not counting the income from your main job which of the following best describes the income you receive from your other job(s)?	It is essential for meeting my basic needs... 1 It is helpful, but not essential..... 2 I could live comfortably without it..... 3 NOT APPLICABLE*..... -8 *(or changed jobs in past 30 days, did not have 2 jobs simultaneously). [Q101]
IF Q101=1, 2 OR 3, ASK Q101A:		
101a.	Would you prefer to have only 1 job?	YES 1 NO 0 [Q101A]

IF HAS MORE THAN ONE JOB IN PAST 7 DAYS (Q003=2) OR ONLY ONE JOB TOTAL (Q003=1 AND Q100=2), SKIP TO Q143.

IF HAS ONE JOB (Q003=1) AND DID OTHER WORK IN PAST MONTH (Q100=1), SAY:

Now I'm going to ask you the same series of questions about (the other job that you had in the past month/one of the other jobs that you had in the past month, the one that you worked at the most.)

Q102-Q142: REPEAT Q018-Q058 AS Q102-Q142

IF NOT CURRENTLY EMPLOYED (CURR_EMP = 0) AND WORKED IN PAST MONTH (Q100=1), SAY:

Now I'm going to ask you a series of questions about (the job that you had in the past month/one of the jobs that you had in the past month, the one that you worked at the most.)

Q102-Q142: REPEAT Q018-Q058 AS Q102-Q142

IF CURRENTLY EMPLOYED OR WORKED IN PAST THREE YEARS (Q015= 0, 1, 2, 3):

143. In the past three years, did you ever lose a job or leave a job specifically because you expected to be laid off? YES..... 1 (GO TO Q145)
NO0 [Q143]

THERE IS NO Q144

IF HAS LOST A JOB IN PAST THREE YEARS (Q143 =1), ASK:		
145.	Thinking about the last time this happened, did it occur within the past 12 months?	YES 1 NO 0 [Q145]
146.	How long had you been employed by the employer? How many years?	_____ YEARS (= 0 IF LESS THAN ONE YEAR) [Q146YRS]
SKIP Q147 IF CURRENTLY EMPLOYED (CURR_EMP = 1)		
	147. Have you worked for pay since that job ended?	YES 1 NO 0 [Q147]

THERE IS NO Q148-149.

Q150-152 ESTABLISHED WHETHER A RESPONDENT HAS WORKED AT ANY JOB LONGER THAN THE ONE(S) THEY PREVIOUSLY DESCRIBED. SEVERAL QUESTIONS HAVE BEEN COMBINED INTO ONE FOR THE SAKE OF CLARITY:

ASK IF ANYMONTH = 1:

150.	Earlier you said that you'd worked at [one of] your job(s) for ____ years. Have you been at any previous job longer than that job?	YES1 (GO TO Q153) NO..... 0 (SKIP TO Q156) [Q150]
[LONGJOB]	Which job is respondent's longest job?	FIRST 7-DAY JOB 1 SECOND 7-DAY JOB 2 THIRTY-DAY JOB 3 OTHER JOB4

IF HAS NOT WORKED A PREVIOUS JOB LONGER THAN ANY CURRENT JOB(S), RESPONDENT SKIPS TO Q156 AND ANSWERS TO Q153-155A ARE POPULATED FROM THEIR PRIOR RESPONSES.

IF WORKED A JOB LONGER THAN CURRENT JOB(S) (Q150=1), ASK 153-155A.

Now I'd like to ask you about the job you worked at for the longest amount of time.

NOTE: VARIABLE NAMES ARE NOT THE QUESTION NUMBERS FOR Q153-155A.	
153. What kind of business or industry did you work in? What did they make or do at this business?	[LONGIND_TEXT] [LONGIND_CODE] [LONGIND2DIG] [LONGIND3DIG]
154. What kind of work did you do; that is, what was your occupation? What were your usual activities or duties?	[LONGOCC_TEXT] [LONGOCC_CODE] [LONGOCC2DIG] [LONGOCC3DIG]
155. How long were you employed by this employer? How many years?	_____ YEARS [LONGYRS]
155a. When did you last work in this job? In what year? just your best estimate?	_____ YEAR [LONGLASTYR]

IF WORKED IN PAST 3 YEARS (CURR_EMP = 1 OR (Q015=1 OR 2)) , ASK:

156.	At what age did you first work six or more months in a row at a job or business?	ENTER AGE _____ [Q156] If began working before age 10.....1 [Q156_BEFORE_10]
157.	Since you first started working at age (INSERT AGE FROM Q156), have you always worked at least six months out of the year?	YES 1 NO 0 [Q157]

158.	Since you first started working at age (INSERT AGE FROM Q156), how many times have you gone at least six months in a row without working? Just your best estimate.	ONE TIME 1 TWO TIMES..... 2 THREE OR MORE TIMES.....3 [Q158]
------	--	---

THERE IS NO Q 159 OR Q160

IF EVER WORKED (Q015 IS NOT 4), ASK:

161. Have you ever been fired, not hired or not promoted because of your (ITEM)?
 (SELECT ALL THAT APPLY)
 [NOTE: VARIABLE = 1 IF RESPONDENT SAID YES TO ITEM]

AGE	1
[Q161_AGE]	
SEX.....	1
[Q161_SEX]	
GENDER IDENTITY.....	1
[Q161_GENDER]	
SEXUAL ORIENTATION	1
[Q161_SEXUAL_ORIENTATION]	
RACE OR ETHNIC BACKGROUND	1
[Q161_RACE]	
RELIGION	1
[Q161_RELIGION]	
DISABILITY OR ILLNESS	1
[Q161_DISABILITY]	
NO (NONE).....	1
[Q161_NO]	

IF YES TO ANY Q161, ASK:

163.	Did (this/any of these) happen in the past 3 years?	YES	1
		NO	0
		[Q163]	

IF EXPERIENCED DISCRIMINATION IN PAST THREE YEARS (Q163=1), ASK

163a.	Did this have a negative impact on your present employment situation?	YES	1
		NO	0
		[Q163A]	

HEALTH QUESTIONS

Now some questions about your health...

164.	In general, would you rate your health as excellent, very good, good, fair or poor?	EXCELLENT 1 VERY GOOD 2 GOOD 3 FAIR 4 POOR 5 [Q164]
------	---	--

THERE IS NO Q 165

166.	In general, would you rate your physical health as excellent, very good, good, fair or poor?	EXCELLENT 1 VERY GOOD 2 GOOD 3 FAIR 4 POOR 5 [Q166]
------	--	--

167.	In general, would you rate your mental health, including your mood and your ability to think as excellent, very good, good, fair or poor?	EXCELLENT 1 VERY GOOD 2 GOOD 3 FAIR 4 POOR 5 [Q167]
------	---	--

168.	In general, would you rate your satisfaction with your social activities and relationships as excellent, very good, good, fair or poor?	EXCELLENT 1 VERY GOOD 2 GOOD 3 FAIR 4 POOR 5 [Q168]
------	---	--

THERE IS NO Q 169 OR Q170

171.	To what extent are you able to carry out your everyday physical activities such as walking, climbing stairs, carrying groceries, or moving a chair? Would you say completely, mostly, moderately, a little or not at all?	COMPLETELY 1 MOSTLY 2 MODERATELY 3 A LITTLE 4 NOT AT ALL 5 [Q171]
------	---	--

172.	In the past 7 days how often have you been bothered by emotional problems such as feeling anxious, depressed, or irritable? Would you say never, rarely, sometimes, often or always?	NEVER 1 RARELY 2 SOMETIMES 3 OFTEN 4 ALWAYS 5 [Q172]
------	--	---

The next series of questions ask you to rate your pain on a scale of 0 to 10, where 0 is no pain and 10 is the worst pain imaginable.

173. In the past 7 days how would you rate your pain on average on a scale of 0-10,

PAIN LEVEL ON AVERAGE
[Q173]

THERE IS NO Q 174

175. Using the same 0-10 scale, over the last 12 months what was the worst pain in the following regions of the body that lasted 3 days or more?

- a. Neck or shoulder? [Q175_a]
b. Back or hips? [Q175_b]
c. Elbow, hand, or wrist? [Q175_c]
d. Feet or knees? [Q175_d]

IF Q175_A, B, C, OR D >=3, ASK:

175e. Does pain currently interfere with your daily activities?	YES	1
	NO	0
		[Q175E]

- 175f. In the past 12 months, have you had trouble breathing YES..... 1
or shortness of breath that lasted for 3 days or more? NO 0
[Q175f]

- 175g. In the past 12 months, have you had numbness, YES 1
tingling, or burning sensation in your hands, legs, NO 0
or feet that lasted 3 days or more? [Q175g]

176. The next questions ask about your feelings and thoughts during the past month. In the past month, how often have you felt or thought (ITEM) -- almost never, sometimes, often or very often?

	[Q176_a-d]			
	ALMOST NEVER	SOMETIMES	OFTEN	VERY OFTEN
a. Felt that you were unable to control the important things in your life.....	1	2	3	4
b. Felt difficulties were piling up so high that you could not overcome them.....	1	2	3	4
c. Felt that things were going your way.....	1	2	3	4
d. Felt confident about your ability to handle your personal problems.....	1	2	3	4

THERE IS NO Q 177

178. Do you have or are you being treated for a long-term medical condition? A long-term condition is one which has already lasted YES..... 1
three months or can be expected to last that long. NO 0
[Q178]

179. Are you limited in any way in activities because of a long-term physical or mental impairment or medical condition? YES 1
NO 0 (SKIP TO Q180)
[Q179]

IF Q179=1, ASK

179a. Does your long-term physical or mental impairment or medical condition now keep you from working at a job or business?	YES	1 (SKIP TO Q180)
	NO	0
		[Q179A]

IF Q179a = 0 OR DK, ASK:

179b. Are you limited in the kind or amount of work you can do because of your long-term impairment or health problem?	YES.....	1
	NO	0
		[Q179B]

IF HAS OR HAS BEEN TREATED FOR A LONG-TERM MEDICAL CONDITION (Q178 = 1), ASK

180. Now we're going to ask about any medical conditions that you may have. Do you have or are you currently being treated for... (ITEM)?			[Q180_a-o]
	IF Q179a = 0 OR DK, ASK:	<u>YES</u>	<u>NO</u>
a. high blood pressure or hypertension	1.....	0....	
b. heart disease, including angina), congestive heart failure, heart attack or other heart problems	1.....	0....	
c. diabetes	1.....	0....	
d. any form of cancer.....	1.....	0....	
e. asthma.....	1.....	0....	
f. migraine headaches	1.....	0....	
g. a chronic lung disease, like emphysema or chronic bronchitis	1.....	0....	
h. ulcer.....	1.....	0....	
i. kidney or bladder problems	1.....	0....	
j. back problems	1.....	0....	
k. repetitive strain injury or carpal tunnel syndrome.....	1.....	0....	
l. arthritis.....	1.....	0....	
m. thyroid disease	1.....	0....	
n. uncorrectable or severe visual impairment or blindness	1.....	0....	
o. hearing impairment or significant hearing loss.....	1.....	0....	

IF CURRENTLY EMPLOYED (CURR_EMP = 1) OR WORKED IN THE PAST YEAR (Q015 = 1), ASK Q181:

181. In the past 12 months, have you had an on-the-job injury?	YES, ONE	1
	YES, MORE THAN ONE	2
	NO	0
		[Q181]
	IF Q181=1 OR 2, ASK:	
181a. Did your on-the-job injury in the past 12 months require medical attention?	YES	1
	NO	0
		[Q181A]
181b. Did you report your on-the-job injury in the past 12 months to anyone in your workplace?	YES	1
	NO	0
		[Q181B]
181c. Did you receive any workers compensation payments for your on-the-job injury in the past 12 months?	YES	1
	NO.....	0
		[Q181c]

THERE IS NO Q182 OR Q183

184. Have you smoked at least 100 cigarettes in your entire life?
Not e-cigarettes or marijuana. YES 1
NO..... 0
[Q184]

IF Q184=1, ASK:

185. How old were you when you first started smoking cigarettes? _____ YEARS
[Q185]
186. Do you now smoke cigarettes every day, some days, or not all?
EVERY DAY.....1
SOME DAYS..... 2
NOT AT ALL..... 3
[Q186]

IF Q186=1 OR 2, ASK:

187. On average, how many cigarettes do you now smoke a day? CIGARETTES _____
[Q187]
188. On how many of the past 30 days did you smoke cigarettes? DAYS _____
[Q188]

IF Q186=3, ASK:

189. On the average, when you smoked, about how many cigarettes did you smoke a day? CIGARETTES _____
[Q189]
190. For how many years did you smoke? YEARS _____
[Q190]

[SMOKER]	Categorical variable for smoker status.	NEVER SMOKED	0
		CURRENT SMOKER	1
		FORMER SMOKER	2
[PACKYEARS]	Calculates pack/years for former and current smokers	_____	

- 190a. Do you vape or use e-cigarettes every day, some days or not at all? EVERY DAY.....1
SOME DAYS.....2
NOT AT ALL.....3
[Q190a]

191. During the past month, have you had at least one drink of any alcoholic beverage, such as beer, wine, or liquor? YES 1
NO..... 0 [SKIP TO Q195A]
[Q191]

IF Q191=1, ASK:

192.	During the past month, how many days per week or month did you drink any alcoholic beverages, on average?	DAYS PER WEEK [Q192_WEEK] DAYS PER MONTH [Q192_MONTH]
193.	If a drink is considered one can or bottle of beer, one glass of wine, one cocktail or one shot of liquor, on the days when you drank, about how many drinks did you have on the average?	_____ DRINKS PER OCCASION [Q193]
194.	Considering all types of alcoholic beverages, how many times during the past month did you have five or more drinks on an occasion?	_____ TIMES [Q194]

- 195a. Which of the following best describes your physical activity level? Seldom active.....1
Moderately active for at least 30 minutes, 3 or more times a week.....2
Vigorously active for at least 30 minutes, 3 or more times a week.....3
[Q195A]
- 195b. In the past month, on how many days have you done a total of 30 minutes or more of recreational physical activity that was enough to raise your breathing rate? _____ DAYS
[Q195B]
196. In the past 12 months, how many times have you been an overnight patient in a hospital for at least one day or longer? _____ TIMES
[Q196]
197. About how long has it been since you saw or talked to a doctor or other health care professional – 1 year or less, 1 to 3 years or more than 3 years? 1 YEAR OR LESS 1
1 TO 3 YEARS 2
MORE THAN 3 YEARS.....3
[Q197]

THERE IS NO Q198 OR Q199

IF ON EMPLOYER'S INSURANCE PLAN (Q057A = 1, Q098A = 1 OR Q141A = 1), SKIP TO Q205

200. Do you currently have any kind of health care coverage? YES.....1
This would include health insurance, prepaid plans such as H-M-O's, or any government sponsored plans such as Medicare or Medi-Cal? NO.....0
[Q200]

IF Q200=2, ASK:

201a.	Did you have health care coverage at any point during the past 12 months?	YES.....1 NO.....0 [Q201A]
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THERE IS NO Q 202, Q203 OR Q204

DEMOGRAPHIC AND ECONOMIC QUESTIONS

205. Are you married, a member of an unmarried couple, separated or divorced, widowed, or never been married?
- MARRIED1
 UNMARRIED COUPLE2
 SEPARATED/DIVORCED3
 WIDOWED4
 NEVER BEEN MARRIED5
 [Q205]

206. What is the highest year of school that you have completed or the highest degree you have received?
- Less than high school1
 High school graduate2
 2-year college /Associate degree3
 Trade/vocational school degree4
 Some college, no degree5
 Bachelor's degree/college6
 Master's degree/ doctoral degree or professional school degree7
 [Q206]

IF MARRIED OR A MEMBER OF AN UNMARRIED COUPLE (Q205 = 1 OR 2), ASK:

207. What is the highest year of school that your spouse or partner has completed or the highest degree he or she has received?
- Less than high school1
 High school graduate2
 2-year college /Associate degree3
 Trade/vocational school degree4
 Some college, no degree5
 Bachelor's degree/college6
 Master's degree/ doctoral degree or professional school degree7
 [Q207]

- 208a. About how tall are you without shoes? _____ INCHES
 [Q208A_INCHES]

- 208b. About how much do you weigh without shoes? (IF VOLUNTEERS THAT SHE IS PREGNANT, ASK: What was your pre-pregnancy weight?) _____ POUNDS
 [Q208B_LBS]
 [BMI] Calculated BMI. _____
 (NOTE: RESPONDENTS COULD PROVIDE METRIC OR IMPERIAL HEIGHT/WEIGHT VALUES. ALL RESPONSES HAVE BEEN CONVERTED TO INCHES & POUNDS.)

209. Including yourself, how many people live in your household? _____ TOTAL
 [Q209]

IF RESPONDENT LIVES WITH OTHER PEOPLE (209>1), ASK:

210. Including yourself, how many are adults age 18 or older? _____ ADULTS
 [Q210]

IF Q209>Q210 ASK:

211. How many are children under age 5? _____ UNDER 5
 [Q211]
 212. How many are age 5 through 17? _____ AGE 5-17
 [Q212]

IF RESPONDENT LIVES WITH CHILDREN OF ANY AGE (Q211>0 OR Q212>0), ASK

213. How many hours in a typical day do you spend caring for the needs of the children? Just your best estimate _____ HOURS
 [Q213]

IF RESPONDENT LIVES WITH Q211>0, ASK:

214.	For how many hours were the children under age five in paid childcare last week?	_____ HOURS	[Q214]
------	--	-------------	--------

IF MORE THAN ONE ADULT IN HOUSEHOLD (Q210>1), ASK:

215.	How many hours in a typical day do you spend taking care of the needs of any elderly or disabled adults in your household, such as helping with bathing or cooking or doing errands or taking them to medical care?	_____ HOURS	[Q215]
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216.	In a typical week, how many hours do you spend taking care of the needs of family members who do not live with you?	_____ HOURS	[Q216]
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IF CAREGIVER FOR CHILDREN OR FAMILY MEMBERS (Q213 > 0 OR Q215 > 0 OR Q216 > 0), ASK:

216a.	Were you paid for any of your time spent caring for any of your family members?	YES 1 NO 0	[Q216A]
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IF MORE THAN ONE ADULT IN HOUSEHOLD (Q210>1), ASK:

217.	How many of the other adults age 18 or older in your household worked for pay in the past week?	_____ ADULTS	[Q217]
------	---	--------------	--------

THERE IS NO Q 218, Q219, Q220, OR Q221

222.	For classification purposes, which of the following best describes your race. You may select as many as apply -- white or Caucasian, Latino, Black or African American, Asian, Pacific Islander, American Indian or Alaskan Native?	WHITE/CAUCASIAN..... 1 [Q222_WHITE]
		LATINO 1 [Q222_LATINO]
		ASIAN..... 1 [Q222_ASIAN]
		PACIFIC ISLANDER 1 [Q222_PACIFIC_ISLANDER]
		BLACK/AFRICAN AMERICAN 1 [Q222_BLACK]
		AMERICAN INDIAN 1 [Q222_AMERICAN_INDIAN]
		ALASKAN NATIVE 1 [Q222_ALASKA_NATIVE]
		OTHER (SPECIFY) 1 [Q222_OTHER] [Q222_OTHER_SPECIFY]

IF NOT LATINO (Q222_LATINO != 1), ASK Q222A:

222a	Are you or is your family of Hispanic origin, such as Mexican American, Central American, South American or Spanish-speaking Latino America?	YES..... 1 NO 0	[Q222A]
------	--	--------------------------	---------

[HISP_LAT]	Indicator variable for Latino and/or Hispanic identity. Defined as: Q222_LATINO = 1 OR Q222A = 1	YES..... 1 NO 0
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IF HISP_LAT = 1, ASK Q222B:

222b. To what Latin American country or countries do you and your family trace your ancestry? (NOTE: VARIABLES = 1 IF RESPONDENT TRACES ANCESTRY TO THAT COUNTRY. VARIABLES ENDING WITH SPECIFY ARE OPEN TEXT FIELDS)			
Country	Variable Name	Country	Variable Name
Argentina	[q222b_argentina]	Honduras	[q222b_honduras]
Bolivia	[q222b_bolivia]	Mexico	[q222b_mexico]
Chile	[q222b_chile]	Nicaragua	[q222b_nicaragua]
Colombia	[q222b_colombia]	Panama	[q222b_panama]
Costa Rica	[q222b_costa_rica]	Paraguay	[q222b_paraguay]
Cuba	[q222b_cuba]	Peru	[q222b_peru]
Dominican Republic	[q222b_dominican_republic]	Puerto Rico	[q222b_puerto_rico]
Ecuador	[q222b_ecuador]	Uruguay	[q222b_uruguay]
El Salvador	[q222b_el_salvador]	Venezuela	[q222b_venezuela]
Guatemala	[q222b_guatemala]	Other (specify)	[q222b_other_specify]

IF ASIAN OR PACIFIC ISLANDER (Q222=3 OR 4), ASK Q223:

223. To what Asian or Pacific Island country or countries do you and your family trace your ancestry? (NOTE: VARIABLES = 1 IF RESPONDENT TRACES ANCESTRY TO THAT COUNTRY. VARIABLES ENDING WITH SPECIFY ARE OPEN TEXT FIELDS)			
Bangladesh	[Q223_BANGLADESH]	Nepal	[Q223_NEPAL]
Bhutan	[Q223_BHUTAN]	Pakistan	[Q223_PAKISTAN]
Burma	[Q223_Burma]	Philippines	[Q223_PHILLIPINES]
Cambodia	[Q223_CAMBODIA]	Samoa	[Q223_SAMOA]
China	[Q223_CHINA]	Sri Lanka	[Q223_SRI_LANKA]
Guam	[Q223_GUAM]	Taiwan	[Q223_TAIWAN]
Hawaii	[Q223_HAWAII]	Thailand	[Q223_THAILAND]
Hmong	[Q223_HMONG]	Vietnam	[Q223_VIETNAM]
India	[Q223_INDIA]	Other Asian (specify)	_____ [Q223_OTHER_ASIAN]
Indonesia	[Q223_Indonesia]		[Q223_OTHER_ASIAN_SPECIFY]
Japan	[Q223_JAPAN]	Other Pacific Islander (specify)	_____ [Q223_OTHER_PI]
Korea (North or South)	[Q223_KOREA]		[Q223_OTHER_PI_SPECIFY]
Laos	[Q223_LAOS]		
Malaysia	[Q223_MALAYSIA]		

224. In what country were you born?

[Q224]

UNITED STATES	1	IRELAND	13
AUSTRALIA	2	ITALY	14
BRAZIL	3	JAPAN	15
CANADA	4	KOREA	16
CHINA/TAIWAN	5	LAOS	17
COLUMBIA	6	MEXICO	18
FRANCE	7	NICARAGUA	19
GERMANY	8	PAKISTAN	20
GREAT BRITAIN	9	RUSSIA	21
GUATEMALA	10	OTHER (SPECIFY)	_____ 22
INDIA	11		[Q224_OTHER_SPECIFY]
IRAN	12		

[NATIVITY]

Indicator variable for US nativity status.
Defined as: **Q224 = 1**

YES 1
NO 0

IF NATIVITY = 1, ASK:

224a.	Were your parents born in the United States?	BOTH PARENTS BORN IN US	1
		ONE PARENT BORN IN US	2
		NEITHER PARENT BORN IN US	3
			[Q224A]

IF NATIVITY = 0, ASK:

225	How old were you when you first came to live in the United States?	_____ YEARS
-----	--	-------------

THERE IS NO Q226 OR Q227

IF LANGUAGE OF INTERVIEW IS ENGLISH, ASK:

228.	What language do you speak most often at home?	ENGLISH.....	1
		SPANISH.....	2
		CANTONESE/MANDARIN	3
		KOREAN	4
		VIETNAMESE	5
		TAGALOG	6
		JAPANESE	7
		OTHER (SPECIFY)	8
			[Q228 OTHER SPECIFY]

229.	Now, we don't need to know exactly, but just roughly could you tell me if your annual household income from all sources before taxes in [2021/2022] was . . . ?	Less than \$20,000	1
		\$20,000 TO \$40,000	2
		\$40,000 TO \$65,000	3
		\$65,000 TO \$100,000	4
		\$100,000 TO \$150,000	5
		\$150,000 TO \$200,000	6
		\$200,000 or more	7
			[Q229]

230. Was your total annual income before taxes, less than or more than _____ ? [Q230]

IF Q229=1 AND Q209=1 INSERT \$16,988	IF Q229=3 AND Q209=8 INSERT \$58,288
IF Q229=2 AND Q209=2 INSERT \$22,888	IF Q229=3 AND Q209=9 INSERT \$64,188
IF Q229=2 AND Q209=3 INSERT \$28,788	IF Q229=4 AND Q209=10 INSERT \$70,088
IF Q229=2 AND Q209=4 INSERT \$34,688	IF Q229=4 AND Q209=11 INSERT \$75,988
IF Q229=3 AND Q209=5 INSERT \$40,588	IF Q229=4 AND Q209=12 INSERT \$81,888
IF Q229=3 AND Q209=6 INSERT \$46,488	IF Q229=4 AND Q209=13 INSERT \$87,788
IF Q229=3 AND Q209=7 INSERT \$52,388	IF Q229=4 AND Q209=14 INSERT \$93,688

[POVERTY] – 125% FEDERAL POVERTY LEVEL (FPL) BASED ON HOUSEHOLD SIZE AND HOUSEHOLD INCOME

AT OR BELOW 125% FPL.....	1
ABOVE 125% FPL	0

IF CURRENTLY EMPLOYED OR WORKED IN PAST THREE YEARS (CURR_EMP = 1, OR Q015 = 1, 2), ASK:

231.	Thinking now of your own individual earnings from all your jobs or work in [2021/2022], which of the following categories best describes the amount you made?	Less than \$20,000 1 \$20,000 TO \$40,000 2 \$40,000 TO \$65,000 3 \$65,000 TO \$100,000 4 \$100,000 TO \$150,000 5 \$150,000 TO \$200,000 6 \$200,000 or more 7 DID NOT WORK THAT YEAR 8 [Q231]
231a.	Are you earning more, less, or about the same as you were one year ago (from all your jobs)?	MORE 1 LESS 2 ABOUT THE SAME 3 [Q231A]

IF RESPONDENT LIVES WITH OTHERS (Q209 > 1), ASK:

231b.	In [2021/2022], did your household income include earning your spouse or other household members received from their work?	YES 1 NO 0 [Q231B]
-------	--	--

231c.	Did your total household income in [2021/2022] include money from other sources, such as pension or social security, unemployment, government programs, disability insurance payments or rental income?	YES 1 NO 0 [Q231c]
-------	---	--

IF RESPONDENT'S HOUSEHOLD INCOME INCLUDED MONEY FROM OTHER SOURCES (Q231c = 1), ASK:

232. Which other sources of income did you have in [2021/2022] ?		[Q232_A-K]	
		<u>YES</u>	<u>NO</u>
a.	Social Security retirement	1.....	0
b.	A pension or other retirement benefit.....	1.....	0
c.	Social Security Disability Insurance or SSDI	1.....	0
d.	Supplemental Security Income or SSI	1.....	0
e.	Temporary assistance for needy families or TANF (tan-if) program.....	1.....	0
f.	Unemployment benefits	1.....	0
g.	Worker's compensation.....	1.....	0
h.	California State Disability insurance	1.....	0
i.	Private disability insurance.....	1.....	0
j.	Income from rental property	1.....	0
k.	Any other source (specify)_____		
	[Q232_K_SPECIFY]	1.....	0

234	Did you receive benefits from any of the following sources in [2021/2022] ?	[Q234_A-D]	
		<u>YES</u>	<u>NO</u>
a.	Assistance with food expenses from the SNAP program (sometimes called "food stamps")	1	0
b.	Free meals or food from a food bank or other sources	1	0
c.	COVID-19 cash payments to anyone in your household	1	0
d.	Other COVID-19 relief programs, such as help with housing costs, medical care bills, or student loan payments.....	1	0

235.	Do you own or rent your home?	OWN	1	SKIP TO 236
		RENT.....	2	SKIP TO 236
		OTHER (SPECIFY).....	3	GO TO 235A
				[Q235_OTHER_SPECIFY]

IF RESPONDENT DOES NOT OWN OR RENT THEIR HOUSING (Q235 = 3), ASK:

235a.	Do you currently have a permanent place to live?	YES	1
		[Q235A] NO.....	0

236.	How difficult is it for you to live on your total household income right now -- not at all difficult, somewhat difficult, difficult, very difficult or extremely difficult?	NOT AT ALL DIFFICULT	1
		SOMEWHAT DIFFICULT.....	2
		DIFFICULT	3
		VERY DIFFICULT.....	4
		EXTREMELY DIFFICULT	5
			[Q236]

237.	Could you come up with \$400 if an unexpected need arose within the next month?	YES	1
		NO	0
			[Q237]

238.	Is it likely that you and your family will experience actual hardships such as inadequate housing, food, or medical attention in the next two months?	YES	1
		NO.....	0
			[Q238]

THERE IS NO Q239 OR Q240

241a. In what county do you live?

[Q241a]

ALAMEDA	01	*INYO	14	MONTEREY	27	SAN LUIS OBISPO....	40	*TRINITY	53
*ALPINE	02	KERN	15	NAPA.....	28	SAN MATEO	41	TULARE	54
*AMADOR	03	*KINGS.....	16	NEVADA.....	29	SANTA BARBARA	42	*TUOLUMNE	55
BUTTE	04	LAKE.....	17	ORANGE	30	SANTA CLARA	43	VENTURA	56
*CALAVERAS	05	*LASSEN	18	PLACER	31	SANTA CRUZ	44	YOLO.....	57
*COLUSA.....	06	LOS ANGELES	19	*PLUMAS	32	SHASTA.....	45	*YUBA	58
CONTRA COSTA	07	MADERA.....	20	RIVERSIDE	33	*SIERRA	46	OTHER COUNTIES....	99
*DEL NORTE	08	MARIN.....	21	SACRAMENTO.....	34	*SISKIYOU	47		
EL DORADO	09	*MARIPOSA.....	22	SAN BENITO	35	SOLANO	48		
FRESNO	10	MENDOCINO	23	SAN BERNARDINO ..	36	SONOMA	49		
*GLENN	11	MERCED.....	24	SAN DIEGO	37	STANISLAUS	50		
HUMBOLDT.....	12	*MODOC.....	25	SAN FRANCISCO	38	SUTTER.....	51		
IMPERIAL	13	*MONO.....	26	SAN JOAQUIN	39	*TEHAMA.....	52		

NOTE: COUNTIES WITH 0-10 RESPONDENTS (DENOTED WITH ASTERISKS*) ARE RECODED TO 99 IN THE PUBLIC RELEASE DATASET.

241b. In what city do you live?

[Q241B]

[THE REMAINDER OF QUESTIONS COLLECT CONTACT INFORMATION, NOT INCLUDED IN THE ANALYTIC FILES].

Thank you very much for your time and opinions.

Appendix 2: Table of all variables, with labels & formats

2023 CWHS Variables List					
Section	Variable name	Variable label	* = Calculated	Value label name	Value label
Survey Administration Items (* = removed from public release dataset)					<i>All variables use -9 to indicate that the question was asked of the respondent but not answered.</i>
	serial	Serial number		numeric	
	id	ID		text	
	path	Delivery method		path	1 Phone, 2 Web
	language	Survey language		surveylanguage	1 English, 2 Spanish
	loi	Length of interview (minutes)		numeric	
**	status_revision	Interview phase (pre-test or final)		statusrevision	1 1st Pretest, 2 2nd Pretest, 3 3rd Pretest, 4 Final
**	status	Status		status	1 Full complete, 2 Partial complete
**	date	Interview date		text	
	prepaid_indicator	Prepaid Indicator Variable		yes_no	0 No, 1 Yes <i>(used for all variables with yes_no</i>
	weight	Weight		numeric	
	weight_pop	Population Weight	*	numeric	
Initial Screening Questions					
	a1a	Age		numeric	
	a1b	Age category		agecategory	1 18-20, 2 21-24, 3 25-29, 4 30-39, 5 40-44, 6 45-49, 7 50-59, 8 60-64, 9 65-70, 10 Over age 70
	a1c	Gender		gender	1 Male, 2 Female, 3 Transgender male, 4 Transgender female, 5 Nonbinary
Summary Employment Variables					
	anymonth	Working in past month or past week	*	yes_no	0 No, 1 Yes
	curr_emp	Currently employed?	*	yes_no	0 No, 1 Yes
	monthempstatus	Detailed Employment Status in month/week (categorical)	*	mes	0 Unemployed, 1 Single, seven-day job, 2 Multiple jobs in past seven days, 3 Single job past month, no job past week, 4 Multiple jobs past month, no job past week, 5 Job in past week and
	thirtyday	Filled out 30-day job battery	*	yes_no	
	missingemployedflag	Currently employed but did not completed job battery	*	flagged	0 No, 1 Yes
Employment Questions					
	q001	Employment last week		work	1 Working, 2 Not at work, but had a job, 3 Looking for work, 4 Keeping house, 5 Going to school, 6 Unable to work, 7 Retired, 8 Other (specify), 9 Vacation but have a job, 10 Sick but
	q001_other_specify	Employment status other, specify		text	
	q001a	Main reason not at work		notworkreason	1 On vacation, 2 Illness/bad weather/labor dispute, 3 Issues with childcare, 4 Temporary lay-off, 5 Indefinite lay-off, 6 About to start a new
	q002	Any work last week		yes_no	
	q003	One job last week		numjobs	1 Only one job, 2 More than one job
	q004	Number of jobs last week		numeric	
	q005	Hours worked last week		numeric	
	q006	Usually work 35 hours or more		yes_no	
	q008	Prefer to work full time		yes_no	
	q009	Weeks ago laid off		numeric	
	q010	Looking for work past 4 weeks		yes_no	
	q011	Weeks looking for work		numeric	
	q013	Want regular job now		yes_no	
	q014	Will look for work in next 12 mos		yes_no	
	q015	Years since last worked		lastworked	0 Currently employed, 1 1 year ago or less, 2 1-3 years, 3 3+ years, 4 Never Worked
	q016	Weeks worked last 12 mos		numeric	
	q017	Hrs per week last 12 mos		numeric	
First Job Battery (main job worked in past 7 days)					
	q018	JOB 1: Occupation		text	
	q018_code	JOB 1: full SOC code		numeric	
	q018_2dig	JOB 1: SOC code first two digits	*	numeric	
	q018_3dig	JOB 1: SOC code first three digits	*	numeric	
	q019yrs	JOB 1: Years in current occupation		numeric	
	q020	JOB 1: Industry		text	
	q020_code	JOB 1: full NAICS code		numeric	
	q020_2dig	JOB 1: NAICS code first two digits	*	numeric	
	q020_3dig	JOB 1: NAICS code first three digits	*	numeric	
	q021yrs	JOB 1: Years at company		numeric	
	q022	JOB 1: Promotion in last 12 mos		yes_no	
	q023	JOB 1: New job improvement in pay		yes_no	
	q024	JOB 1: Self-employed?		selfemploy	0 Work for someone else, 1 Self-employed

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q025	JOB 1: Self-employed: independent contractor		indcontractor	1 Independent contractor/consultant/freelancer, 2 Something else
	q026	JOB 1: Employee of own business/farm		yes_no	
	q026a	JOB 1: Employee: independent contractor		yes_no	
	q027	JOB 1: Employee: one company or multiple		numemployer	1 Only one, 2 More than one, One employer, multiple customers
** Individual app names dropped.	q028	JOB 1: Do app-based work?		yes_no	
	q028a	JOB 1: name of app-based company?		yes_no	
	q028ai_amazon_flex	JOB 1: Amazon Flex		yes_no	
	q028ai_angi	JOB 1: Angi		yes_no	
	q028ai_caviar	JOB 1: Caviar		yes_no	
	q028ai_doordash	JOB 1: DoorDash		yes_no	
	q028ai_grubhub	JOB 1: Grubhub		yes_no	
	q028ai_hitch	JOB 1: Hitch		yes_no	
	q028ai_hopskipdrive	JOB 1: HopSkipDrive		yes_no	
	q028ai_instacart	JOB 1: Instacart		yes_no	
	q028ai_lyft	JOB 1: Lyft		yes_no	
	q028ai_other	JOB 1: Other		yes_no	
	q028ai_other_specify	JOB 1: Other app company name		text	
	q028ai_postmates	JOB 1: Postmates		yes_no	
	q028ai_rover	JOB 1: Rover		yes_no	
	q028ai_shipt	JOB 1: Shipt		yes_no	
	q028ai_taskrabbit	JOB 1: TaskRabbit		yes_no	
	q028ai_thumbtack	JOB 1: Thumbtack		yes_no	
	q028ai_uber	JOB 1: Uber		yes_no	
	q028ai_uber_eats	JOB 1: Uber Eats		yes_no	
	q028ai_sales	Job 1: sales app	*	yes_no	
	q028ai_rideshare	Job 1: rideshare app	*	yes_no	
	q028ai_oddjob	Job 1: oddjob app	*	yes_no	
	q028ai_entertainment	Job 1: entertainment app	*	yes_no	
	q028ai_delivery	Job 1: delivery app	*	yes_no	
	q028ai_assorted	Job 1: assorted app	*	yes_no	
	q029	JOB 1: payment method		formpayment	1 Traditional paycheck/direct deposit, 2 Personal check, 3 Electronic payment service, 4 Cash, 5
	q029a	JOB 1: hourly or a fixed salary		hourlysalary	1 Hours worked, 2 Fixed salary
	q029a1	JOB 1: bonuses, tips, or commissions		yes_no	
	q029b	JOB 1: paid piece rate		yes_no	
	q030	JOB 1: employer deductions		yes_no	
	q031	JOB 1: Income tax form		taxform	1 W2, 2 1099, 3 Neither
	q032	JOB 1: unpaid work		yes_no	
	q033a	JOB 1: who decides how work is done		workdecision	1 You/worker decide, 2 Company decides
	q033b	JOB 1: product/service company provides		text	
	q033b_indcode	JOB 1: full NAICS code for self-employed		numeric	
	q033b_indcode_2dig	JOB 1: NAICS code first two digits for self-employed	*	numeric	
	q033b_indcode_3dig	JOB 1: NAICS code first three digits for self-employed	*	numeric	
	q033c	JOB 1: in business for themselves		yes_no	
	q034	JOB 1: can choose to stay at current job		yes_no	
	q035	JOB 1: expect job to end in next 12 mos		yes_no	
	q036	JOB 1: temp. employment agency		yes_no	
	q037	JOB 1: company contracts services out		yes_no	
	q038	JOB 1: Size of firm		firmsize	1 <10, 2 10-99, 3 100-1000, 4 >1000
	q039	JOB 1: Work schedule		shiftsched	1 Regular daytime schedule, 2 Regular evening shift, 3 Regular nighttime shift, 4 Rotating shift, 5
	q040_old	JOB 1: On call work (original values, do not use for analysis)		yes_no	
	q040a	JOB 1: On call work past week		yes_no	
	q040a_flag	JOB 1: On call work Q response imputed?		yes_no	
	q041	JOB 1: Overtime work		yes_no	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q042	JOB 1: Flexible hours		yes_no	
	q043	JOB 1: Supervise others		yes_no	
	q044	JOB 1: Work at home		wfh	1 Agree Strongly, 2 Agree somewhat, 3 Disagree somewhat, 4 Disagree strongly
	q047	JOB 1: Days paid sick leave		numeric	
	q047_unlimited	JOB 1: unlimited paid sick leave		yes_no	
	q048_a	JOB 1: requires learn new things		job_experience	1 Agree Strongly, 2 Agree somewhat, 3 Disagree somewhat, 4 Disagree strongly
	q048_b	JOB 1: little freedom over work		job_experience	
	q048_c	JOB 1: allows independent decisions		job_experience	
	q048_d	JOB 1: enough time to finish work		job_experience	
	q048_e	JOB 1: very fast without breaks		job_experience	
	q048_f	JOB 1: work speed monitored		job_experience	
	q048_g	JOB 1: fear job loss if too slow		job_experience	
	q048_h	JOB 1: fear job loss if take break		job_experience	
	q050_a	JOB 1: requires walking?		occhealthass	1 A lot, 2 Sometimes, 3 Not at all
	q050_b	JOB 1: Use stairs or inclines?		occhealthass	
	q050_c	JOB 1: Stand for four+ hours?		occhealthass	
	q050_d	JOB 1: Sit for long periods?		occhealthass	
	q050_e	JOB 1: Stoop, crouch or kneel?		occhealthass	
	q050_f	JOB 1: Bend over or twist around?		occhealthass	
	q050_g	JOB 1: Lift or carry up to 50 lbs?		occhealthass	
	q050_h	JOB 1: Lift or carry weights up to 10 lbs?		occhealthass	
	q050_i	JOB 1: Repeat a hand motion?		occhealthass	
	q050_j	JOB 1: Pinch or grasp items or tools?		occhealthass	
	q050_k	JOB 1: Use vibrating/power tools?		occhealthass	
	q050_l	JOB 1: Ride in vehicle?		occhealthass	
	q050_m	JOB 1: Use computers/devices?		occhealthass	
	q050_n	JOB 1: Concentrate for long periods?		occhealthass	
	q050_o	JOB 1: Interact with other people?		occhealthass	
	q051	JOB 1: Level of schooling required		reqschool	1 High school, 2 Associate's degree or vocational school, 3 Bachelor's degree, 4 Graduate or
	q053_a	JOB 1: Bullying by supervisor		bully_respect	-8 Not Applicable, 1 Never, 2 Occasionally, 3
	q053_b	JOB 1: Bullying by coworkers		bully_respect	
	q053_c	JOB 1: Bullying by customers		bully_respect	
	q054_a	JOB 1: Respected by supervisor		bully_respect	
	q054_b	JOB 1: Respected by coworkers		bully_respect	
	q054_c	JOB 1: Respected by customers		bully_respect	
	q055	JOB 1: Union contract		yes_no	
	q057	JOB 1: job offers health insurance		yes_no	
	q057a	JOB 1: has job health insurance		yes_no	
	q058	JOB 1: Pension plan through job		yes_no	
Second Job Battery (2nd job worked in past 7 days)					
	q059	JOB 2: Occupation		text	
	q059_code	JOB 2: full SOC code		numeric	
	q059_2dig	JOB 2: SOC code first two digits	*	numeric	
	q059_3dig	JOB 2: SOC code first three digits	*	numeric	
	q060yrs	JOB 2: Years in current occupation		numeric	
	q061	JOB 2: Industry		text	
	q061_code	JOB 2: full NAICS code		numeric	
	q061_2dig	JOB 2: NAICS code first two digits	*	numeric	
	q061_3dig	JOB 2: NAICS code first three digits	*	numeric	
	q061yrs	JOB 2: Years at company		numeric	
	q065	JOB 2: Self-employed?		selfemploy	0 Work for someone else, 1 Self-employed
	q066	JOB 2: Self-employed: independent contractor		indcontractor	1 Independent contractor/consultant/freelancer, 2 Something else
	q067	JOB 2: Employee of own business/farm		yes_no	
	q067a	JOB 2: Employee: independent contractor		yes_no	
	q068	JOB 2: Employee: one company or multiple		numemployer	1 Only one, 2 More than one, One employer, multiple customers
	q069	JOB 2: Do app-based work?		yes_no	
	q069a	JOB 2: name of app-based company?		yes_no	
	q069ai_amazon_flex	JOB 2: Amazon Flex		yes_no	
	q069ai_angi	JOB 2: Angi		yes_no	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q069ai_caviar	JOB 2: Caviar		yes_no	
	q069ai_doordash	JOB 2: DoorDash		yes_no	
	q069ai_grubhub	JOB 2: Grubhub		yes_no	
	q069ai_hitch	JOB 2: Hitch		yes_no	
	q069ai_hopskipdrive	JOB 2: HopSkipDrive		yes_no	
	q069ai_instacart	JOB 2: Instacart		yes_no	
	q069ai_lyft	JOB 2: Lyft		yes_no	
	q069ai_other	JOB 2: Other		yes_no	
	q069ai_other_specify	JOB 2: Other app company name		text	
	q069ai_postmates	JOB 2: Postmates		yes_no	
	q069ai_rover	JOB 2: Rover		yes_no	
	q069ai_shipt	JOB 2: Shipt		yes_no	
	q069ai_taskrabbit	JOB 2: TaskRabbit		yes_no	
	q069ai_thumbtack	JOB 2: Thumbtack		yes_no	
	q069ai_uber	JOB 2: Uber		yes_no	
	q069ai_uber_eats	JOB 2: Uber Eats		yes_no	
	q069ai_sales	JOB 2: sales app	*	yes_no	
	q069ai_rideshare	JOB 2: rideshare app	*	yes_no	
	q069ai_oddjob	JOB 2: oddjob app	*	yes_no	
	q069ai_entertainment	JOB 2: entertainment app	*	yes_no	
	q069ai_delivery	JOB 2: delivery app	*	yes_no	
	q069ai_assorted	JOB 2: assorted app	*	yes_no	
	q070a1	JOB 2: bonuses, tips, or commissions		yes_no	
	q071	JOB 2: employer deductions		yes_no	
	q072	JOB 2: income tax form		taxform	1 W2, 2 1099, 3 Neither
	q073	JOB 2: unpaid work		yes_no	
	q074a	JOB 2: who decides how work is done		workdecision	1 You/worker decide, 2 Company decides
	q074b	JOB 2: product/service company provides		text	
	q074b_indcode	JOB 2: full NAICS code for self-employed		numeric	
	q074b_indcode_2dig	JOB 2: NAICS code first two digits for self-employed	*	numeric	
	q074b_indcode_3dig	JOB 2: NAICS code first three digits for self-employed	*	numeric	
	q074c	JOB 2: in business for themselves		yes_no	
	q075	JOB 2: can choose to stay at current job		yes_no	
	q076	JOB 2: expect job to end in next 12 mos		yes_no	
	q077	JOB 2: temp. employment agency		yes_no	
	q078	JOB 2: company contracts services out		yes_no	
	q080	JOB 2: Work schedule		shiftsched	1 Regular daytime schedule, 2 Regular evening shift, 3 Regular nighttime shift, 4 Rotating shift, 5
	q081_old	JOB 2: On call work (original values, do not use for analysis)		yes_no	
	q081a	JOB 2: On call work past week		yes_no	
	q081a_flag	JOB 2: On call work Q response imputed?		yes_no	
	q082	JOB 2: Overtime work		yes_no	
	q096	JOB 2: Union contract		yes_no	
	q098	JOB 2: job offers health insurance		yes_no	
	q098a	JOB 2: has job health insurance		yes_no	
	q099	JOB 2: Pension plan through job		yes_no	
Employment in past 30 days					
	q100	Any (other) work past month?		yes_no	
	q100a	Number jobs past month		numeric	
	q101	Income from other jobs		secondjobincome	-8 NOT APPLICABLE, 1 It is essential for meeting my basic needs, 2 It is helpful, but not essential,
	q101a	Prefer to have 1 job		yes_no	
30 day Job Battery					
	q102	30-day job: Occupation		text	
	q102_code	30-day job: full SOC code		numeric	
	q102_2dig	30-day job: SOC code first two digits	*	numeric	
	q102_3dig	30-day job: SOC code first three digits	*	numeric	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q103yrs	30-day job: Years in current occupation		numeric	
	q104	30-day job: Industry		text	
	q104_code	30-day job: full NAICS code		numeric	
	q104_2dig	30-day job: NAICS code first two digits	*	numeric	
	q104_3dig	30-day job: NAICS code first three digits	*	numeric	
	q105yrs	30-day job: Years at company		numeric	
	q106	30-day job: Promotion in last 12 mos		yes_no	
	q107	30-day job: New job improvement in pay		yes_no	
	q108	30-day job: Self-employed?		selfemploy	0 Work for someone else, 1 Self-employed
	q109	30-day job: Self-employed: independent contractor		indcontractor	1 Independent contractor/consultant/freelancer, 2 Something else
	q110	30-day job: Employee of own business/farm		yes_no	
	q110a	30-day job: Employee: independent contractor		yes_no	
	q111	30-day job: Employee: one company or multiple		numemployer	1 Only one, 2 More than one, 3 One employer, multiple customers
	q112	30-day job: Do app-based work?		yes_no	
	q112a	30-day job: name of app-based company?		yes_no	
	q112ai_amazon_flex	30-day job: Amazon Flex		yes_no	
	q112ai_angi	30-day job: Angi		yes_no	
	q112ai_caviar	30-day job: Caviar		yes_no	
	q112ai_doordash	30-day job: DoorDash		yes_no	
	q112ai_grubhub	30-day job: Grubhub		yes_no	
	q112ai_hitch	30-day job: Hitch		yes_no	
	q112ai_hopskipdrive	30-day job: HopSkipDrive		yes_no	
	q112ai_instacart	30-day job: Instacart		yes_no	
	q112ai_lyft	30-day job: Lyft		yes_no	
	q112ai_other	30-day job: Other		yes_no	
	q112ai_other_specify	30-day job: Other app company name		text	
	q112ai_postmates	30-day job: Postmates		yes_no	
	q112ai_rover	30-day job: Rover		yes_no	
	q112ai_shipt	30-day job: Shipt		yes_no	
	q112ai_taskrabbit	30-day job: TaskRabbit		yes_no	
	q112ai_thumbtack	30-day job: Thumbtack		yes_no	
	q112ai_uber	30-day job: Uber		yes_no	
	q112ai_uber_eats	30-day job: Uber Eats		yes_no	
	q112ai_sales	30-day job: sales app	*	yes_no	
	q112ai_rideshare	30-day job: rideshare app	*	yes_no	
	q112ai_oddjob	30-day job: oddjob app	*	yes_no	
	q112ai_entertainment	30-day job: entertainment app	*	yes_no	
	q112ai_delivery	30-day job: delivery app	*	yes_no	
	q112ai_assorted	30-day job: assorted app	*	yes_no	
	q113	30-day job: payment method		formpayment	1 Traditional paycheck/direct deposit, 2 Personal check, 3 Electronic payment service, 4 Cash, 5
	q113a	30-day job: hourly or a fixed salary		hourlysalary	1 Hours worked, 2 Fixed salary
	q113a1	30-day job: bonuses, tips, or commissions		yes_no	
	q113b	30-day job: paid piece rate		yes_no	
	q114	30-day job: employer deductions		yes_no	
	q115	30-day job: income tax form		taxform	1 W2, 2 1099, 3 Neither
	q116	30-day job: unpaid work		yes_no	
	q117a	30-day job: who decides how work is done		workdecision	1 You/worker decide, 2 Company decides
	q117b	30-day job: product/service company provides		text	
	q117b_indcode	30-day job: full NAICS code for self-employed		numeric	
	q117b_indcode_2dig	30-day job: NAICS code first two digits for self-emp.	*	numeric	
	q117b_indcode_3dig	30-day job: NAICS code first three digits for self-emp.	*	numeric	
	q117c	30-day job: in business for themselves		yes_no	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q118	30-day job: can choose to stay at current job		yes_no	
	q119	30-day job: expect job to end in next 12 mos		yes_no	
	q120	30-day job: temp. employment agency		yes_no	
	q121	30-day job: company contracts services out		yes_no	
	q122	30-day job: Size of firm		firmsize	1 <10, 2 10-99, 3 100-1000, 4 >1000
	q123	30-day job: Work schedule		shiftsched	1 Regular daytime schedule, 2 Regular evening shift, 3 Regular nighttime shift, 4 Rotating shift, 5
	q124_old	30-day job: On call work (original values, do not use for analysis)		yes_no	
	q124	30-day job: On call work past week		yes_no	
	q124_flag	30-day job: On call work Q response imputed?		yes_no	
	q125	30-day job: Overtime work		yes_no	
	q126	30-day job: Flexible hours		yes_no	
	q127	30-day job: Supervise others		yes_no	
	q128	30-day job: Work at home		wfh	1 Agree Strongly, 2 Agree somewhat, 3 Disagree somewhat, 4 Disagree strongly
	q131	30-day job: Days paid sick leave		numeric	
	q131_unlimited	30-day job: unlimited paid sick leave		yes_no	
	q132_a	30-day job: requires learn new things		job_experience	1 Agree Strongly, 2 Agree somewhat, 3 Disagree somewhat, 4 Disagree strongly
	q132_b	30-day job: little freedom over work		job_experience	
	q132_c	30-day job: allows independent decisions		job_experience	
	q132_d	30-day job: enough time to finish work		job_experience	
	q132_e	30-day job: very fast without breaks		job_experience	
	q132_f	30-day job: work speed monitored		job_experience	
	q132_g	30-day job: fear job loss if too slow		job_experience	
	q132_h	30-day job: fear job loss if take break		job_experience	
	q134_a	30-day job: requires walking?		occhealthass	1 A lot, 2 Sometimes, 3 Not at all
	q134_b	30-day job: Use stairs or inclines?		occhealthass	
	q134_c	30-day job: Stand for four+ hours?		occhealthass	
	q134_d	30-day job: Sit for long periods?		occhealthass	
	q134_e	30-day job: Stoop, crouch or kneel?		occhealthass	
	q134_f	30-day job: Bend over or twist around?		occhealthass	
	q134_g	30-day job: Lift or carry up to 50 lbs?		occhealthass	
	q134_h	30-day job: Lift or carry up to 10 lbs?		occhealthass	
	q134_i	30-day job: Repeat a hand motion?		occhealthass	
	q134_j	30-day job: Pinch or grasp items or tools?		occhealthass	
	q134_k	30-day job: Use vibrating/power tools?		occhealthass	
	q134_l	30-day job: Ride in vehicle?		occhealthass	
	q134_m	30-day job: Use computers/devices?		occhealthass	
	q134_n	30-day job: Concentrate for long periods?		occhealthass	
	q134_o	30-day job: Interact with other people?		occhealthass	
	q135	30-day job: Level of schooling required		reqschool	1 High school, 2 Associate's degree or vocational school, 3 Bachelor's degree, 4 Graduate or
	q137_a	30-day job: Bullying by supervisor		bully_respect	-8 Not Applicable, 1 Never, 2 Occasionally, 3
	q137_b	30-day job: Bullying by coworkers		bully_respect	
	q137_c	30-day job: Bullying by customers		bully_respect	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q138_a	30-day job: Respected by supervisor		bully_respect	
	q138_b	30-day job: Respected by coworkers		bully_respect	
	q138_c	30-day job: Respected by customers		bully_respect	
	q139	30-day job: Union contract		yes_no	
	q141	30-day job: job offers health insurance		yes_no	
	q141a	30-day job: has job health insurance		yes_no	
	q142	30-day job: job pension		yes_no	
Job History Questions					
	q143	Displaced: Lost a job within past 3yrs?		yes_no	
	q145	Displaced: Lost job was in past 12mos?		yes_no	
	q146yrs	Displaced: Yrs employed at lost job?		numeric	
	q147	Displaced: Worked since lost job?		yes_no	
	longjob	Which job is their longest?	*	longjob	1 first seven day, 2 second seven day, 3 thirty day, 4 displaced job or some other job, 5 some
	q150	Any other job longer than job(s) described?		yes_no	
	longlastyr	Year last worked at longest job	*	numeric	
	longyrs	Years worked at longest job	*	numeric	
	longocc_text	Longest Occupation	*	text	
	longocc_code	Longest Job: full SOC code	*	numeric	
	longocc2dig	Longest Job: SOC code first two digits	*	numeric	
	longocc3dig	Longest Job: SOC code first three digits	*	numeric	
	longind_text	Longest Industry	*	text	
	longind_code	Longest Job: full NAICS code	*	numeric	
	longind2dig	Longest Job: NAICS code first two digits	*	numeric	
	longind3dig	Longest Job: NAICS code first three digits	*	numeric	
	q156	Age began working		numeric	
	q156_before_10	Began working <age 10		yes_no	
	q157	Consistent work		yes_no	
	q158	Number occasions without work		timesnowork	1 Once, 2 Twice, 3 Three or more times
	q161	Any Discrimination?		yes_no	
	q161_age	Discrimination: Age		yes_no	
	q161_sex	Discrimination: Sex		yes_no	
	q161_gender	Discrimination: Gender		yes_no	
	q161_sexual_orientatio	Discrimination: Sexual orientation		yes_no	
	q161_race	Discrimination: Race		yes_no	
	q161_religion	Discrimination: Religion		yes_no	
	q161_disability	Discrimination: Disability		yes_no	
	q163	Discrimination: Past 3 years		yes_no	
	q163a	Discrimination: career impact		yes_no	
Health Questions					
	q164	Health		health_social	1 Excellent, 2 Very Good, 3 Good, 4 Fair, 5 Poor
	q166	Physical health		health_social	
	q167	Mental health		health_social	
	q168	Social satisfaction		health_social	
	q171	Physical ability		physical_ability	1 Completely, 2 Mostly, 3 Moderately, 4 A little,
	q172	Emotional problems 7 days		emotional_state	1 Never, 2 Rarely, 3 Sometimes, 4 Often, 5
	q173	Pain 7 days		numeric	
	q175_a	Pain 12 mos: Neck or shoulder		numeric	
	q175_b	Pain 12 mos: Back or hip		numeric	
	q175_c	Pain 12 mos: Elbow, hand, wrist		numeric	
	q175_d	Pain 12 mos: Feet or knee		numeric	
	q175e	Pain interferes with activities		yes_no	
	q175f	Past 12 mos: Trouble breathing		yes_no	
	q175g	Past 12 mos: Numb, tingling, burning		yes_no	
	q176_a	Perceived stress: Control		stress_assessment	1 Almost never, 2 Sometimes, 3 Often, 4 Very
	q176_b	Perceived stress: Difficulties		stress_assessment	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q176_c	Perceived stress: Things going your way		stress_assessment	
	q176_d	Perceived stress: Confidence		stress_assessment	
	q178	Chronic condition		yes_no	
	q179	Chronic condition: Limits activities		yes_no	
	q179a	Chronic condition: Impedes work		yes_no	
	q179b	Chronic condition: Limits kind of work		yes_no	
	q180_a	Chronic: Hypertension		yes_no	
	q180_b	Chronic: Heart disease		yes_no	
	q180_c	Chronic: Diabetes		yes_no	
	q180_d	Chronic: Cancer		yes_no	
	q180_e	Chronic: Asthma		yes_no	
	q180_f	Chronic: Migraine		yes_no	
	q180_g	Chronic: lung disease		yes_no	
	q180_h	Chronic: Ulcer		yes_no	
	q180_i	Chronic: Kidney/bladder		yes_no	
	q180_j	Chronic: Back problems		yes_no	
	q180_k	Chronic: Repetitive strain injury		yes_no	
	q180_l	Chronic: Arthritis		yes_no	
	q180_m	Chronic: Thyroid		yes_no	
	q180_n	Chronic: visual impairment/blindness		yes_no	
	q180_o	Chronic: Hearing impairment/loss		yes_no	
	q181	OTJ injury past 12 mos		otj_injuries	0 No, 1 Yes one, 2 Yes more than one
	q181a	OTJ injury: required medical attention		yes_no	
	q181b	OTJ injury: Reported		yes_no	
	q181c	OTJ injury: Workers comp		yes_no	
	smoker	Smoke: status	*	smoker	0 Never smoked, 1 Current smoker, 2 Former
	packyears	Pack/Years for Former&Current Smokers	*	numeric	
	q184	Smoke: 100 cigarettes in lifetime		yes_no	
	q185	Smoke: Age started		numeric	
	q186	Smoke: current status		smokerfreq	1 Every day, 2 Some days, 3 Not at all
	q187	Smoke: current smoker, cigs per day		numeric	
	q188	Smoke: Past 30 days		numeric	
	q189	Smoke: former smoker, cigs per day		numeric	
	q190	Smoke: Years		numeric	
	q190a	Smoke: e-cigarettes		smokerfreq	1 Every day, 2 Some days, 3 Not at all
	q191	Alcohol: Any past month		yes_no	
	q192_month	Alcohol: Days per month		numeric	
	q193	Alcohol: Average drinks per occasion		numeric	
	q194	Alcohol: occurrence of binge drinking		numeric	
	q195a	Physical activity: level		activitylevel	1 Seldom active, 2 Moderately active for at least 30 minutes, 3 or more times a week, 3 Vigorously active for at least 30 minutes, 3 or
	q195b	Physical activity: 30 minutes per day		numeric	
	q196	Overnight patient past 12 mos		numeric	
	q197	Time since doctor's visit		drvisit	1 1 year or less, 2 1-3 years, 3 More than 3 years
	q200	Health care coverage		yes_no	
	q201a	Health care coverage past 12 mos		yes_no	
Demographic and Economic Questions					
	q205	Marital status		marital	1 Married, 2 Unmarried couple, 3 Separated/divorced, 4 Widowed, 5 Never
	q206	Education		schooling	1 Less than high school, 2 High school graduate, 3 2-year college/Associate degree, 4 Trade/vocational school degree, 5 Some college, no degree, 6 Bachelors degree/college, 7
	q207	Spouse's education		schooling	
	q208a	Height: inches		numeric	
	q208b	Weight: lbs		numeric	
	bmi	BMI	*	numeric	
	q209	Household size		numeric	
	q210	Household adults		numeric	
	q211	Household children under 5		numeric	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q212	Household children age 5-17		numeric	
	q213	Daily hrs caring for children		numeric	
	q214	Weekly hrs of childcare		numeric	
	q215	Daily hrs caring for adults		numeric	
	q216	Weekly hrs family care outside house		numeric	
	q216a	Paid for family caretaking		yes_no	
	q217	Number household working adults		numeric	
	race_ethnicity	Race/Ethnicity Variable (categorical)	*	race_eth	1 White, non-Hispanic, 2 Latino, 3 Black, 4 Asian/Pacific Islander, 5 Other (including
	q222_white	White/Caucasian		yes_no	
	q222_latino	Latino		yes_no	
	q222_asian	Asian		yes_no	
	q222_pacific_islander	Pacific Islander		yes_no	
	q222_black	Black/African American		yes_no	
	q222_american_indian	American Indian		yes_no	
	q222_alaska_native	Alaska Native		yes_no	
	q222_other	Other race		yes_no	
	q222_other_specify	Other race, specify		text	
	q222a	Hispanic origin		yes_no	
	q222b_mexico	Mexico		yes_no	
	q222b_argentina	Argentina		yes_no	
	q222b_bolivia	Bolivia		yes_no	
	q222b_chile	Chile		yes_no	
	q222b_columbia	Columbia		yes_no	
	q222b_costa_rica	Costa Rica		yes_no	
	q222b_cuba	Cuba		yes_no	
	q222b_dominican_repu	Dominican Republic		yes_no	
	q222b_ecuador	Ecuador		yes_no	
	q222b_el_salvador	El Salvador		yes_no	
	q222b_guatemala	Guatemala		yes_no	
	q222b_honduras	Honduras		yes_no	
	q222b_nicaragua	Nicaragua		yes_no	
	q222b_panama	Panama		yes_no	
	q222b_paraguay	Paraguay		yes_no	
	q222b_peru	Peru		yes_no	
	q222b_puerto_rico	Puerto Rico		yes_no	
	q222b_uruguay	Uruguay		yes_no	
	q222b_venezuela	Venezuela		yes_no	
	q222b_other	Other Latin American country		yes_no	
	q222b_other_specify	Other Latin American country name		text	
	q223_bangladesh	Bangladesh		yes_no	
	q223_bhutan	Bhutan		yes_no	
	q223_burma	Burma		yes_no	
	q223_cambodia	Cambodia		yes_no	
	q223_china	China		yes_no	
	q223_guam	Guam		yes_no	
	q223_hawaii	Hawaii		yes_no	
	q223_hmong	Hmong		yes_no	
	q223_india	India		yes_no	
	q223_indonesia	Indonesia		yes_no	
	q223_japan	Japan		yes_no	
	q223_korea	Korea		yes_no	
	q223_laos	Laos		yes_no	
	q223_malaysia	Malaysia		yes_no	
	q223_nepal	Nepal		yes_no	
	q223_pakistan	Pakistan		yes_no	
	q223_philippines	Philippines		yes_no	
	q223_samoa	Samoa		yes_no	
	q223_sri_lanka	Sri Lanka		yes_no	
	q223_taiwan	Taiwan		yes_no	
	q223_thailand	Thailand		yes_no	
	q223_vietnam	Vietnam		yes_no	
	q223_other_asian	Other Asian country		yes_no	
	q223_other_pi	Other Pacific Island country		yes_no	
	q223_other_asian_spec	Other Asian country name		text	
	q223_other_pi_specify	Other Pacific Island country name		text	

Section	Variable name	Variable label	* = Calculated	Value label name	Value label
	q224	Country of birth		birthcountry	1 United States, 2 Australia, 3 Brazil, 4 Canada, 5 China/Taiwan, 6 Columbia, 7 France, 8 Germany, 9 Great Britain, 10 Guatemala, 11 India, 12 Iran, 13 Ireland, 14 Italy, 15 Japan, 16 Korea, 17 Laos, 18 Mexico, 19 Nicaragua, 20 Pakistan, 21 Russia,
	q224_other_specify	Country of birth, other specify		text	
	nativity	Born in the United States	*	yes_no	
	q224a	Parents born in U.S		parentbirthcountry	1 Both parents born in US, 2 One parent born in US, 3 Neither parent born in US
	q225	Age began living in U.S		numeric	
	q228	Language spoken at home		homelanguage	1 English, 2 Spanish, 3 Cantonese/Mandarin, 4 Korean, 5 Vietnamese, 6 Tagalog, 7 Japanese, 8
	q228_other_specify	Language spoken at home name		text	
	q229	Annual household income		houseincome	1 Less than \$20,000, 2 \$20,000 - \$39,999, 3 \$40,000 - \$64,999, 4 \$65,000 - \$99,999, 5 \$100,000 - \$149,999, 6 \$150,000 - \$199,999, 7
	q230	Household income: poverty level, interim variable only		povertylevel	1 Less, 2 More
	poverty	Poverty Status Variable	*	pov	0 Above 125% of Federal Poverty Level, 1 Below 125% of Federal Poverty Level
	q231	Individual income		indivincome	1 Less than \$20,000, 2 \$20,000 - \$39,999, 3 \$40,000 - \$64,999, 4 \$65,000 - \$99,999, 5 \$100,000 - \$149,999, 6 \$150,000 - \$199,999, 7
	q231a	income more/less/the same than 1yr ago		incomevslastyr	1 More, 2 Less, 3 About the same
	q231b	Household income contributors		yes_no	
	q231c	Other household income		yes_no	
	q232_a	Social Security retirement		yes_no	
	q232_b	Pension		yes_no	
	q232_c	Social Security Disability		yes_no	
	q232_d	SSI		yes_no	
	q232_e	TANF		yes_no	
	q232_f	Unemployment		yes_no	
	q232_g	Worker's comp		yes_no	
	q232_h	CA State disability insurance		yes_no	
	q232_i	private disability insurance		yes_no	
	q232_j	rental income		yes_no	
	q232_k	Income source: Other		yes_no	
	q232_k_specify	Income source: Other, specify		text	
	q234_a	Benefits: SNAP		yes_no	
	q234_b	Benefits: food bank		yes_no	
	q234_c	Benefits: COVID-19 cash		yes_no	
	q234_d	Benefits: Other COVID-19 relief		yes_no	
	q235	Own or rent home		ownorrent	1 Own, 2 Rent, 3 Other
	q235_other_specify	Own or Rent, other specify		text	
	q235a	homelessness		yes_no	
	q236	Financial difficulty		financialdifficulty	1 Not at all difficult, 2 Somewhat difficult, 3 Difficult, 4 Very difficult, 5 Extremely difficult
	q237	Can cover unexpected expense		yes_no	
	q238	At risk of financial difficulty		yes_no	
	q241a	County		county	See questionnaire for individual codes.

2023 CWHS Variables List - Main and Second Job Variables	
Main Job variables	Label
mainjob_type	Origin of Main Job (1=7-day job, 2=30-day job)
q018_codemn	MN: full SOC code
q018_2digmn	MN: SOC code first two digits
q1018_3digmn	MN: SOC code first three digits
q019yrsmn	MN: Total time in occupation in years
q020_codemn	MN: full NAICS code
q020_2digmn	MN: NAICS code first two digits
q020_3digmn	MN: NAICS code first three digits
q021yrsmn	MN: Total time at company in years
q022mn	MN: Promotion in last 12 mos
q023mn	MN: New job improvement in pay
q024mn	MN: Self-employed?
q025mn	MN: Self-employed: independent contractor
q026mn	MN: Employee of own business/farm
q026amn	MN: Employee: independent contractor
q027mn	MN: Employee: one company or multiple
q028mn	MN: Do app-based work?
q028amn	MN: name of app-based company?
q028ai_salesmn	MN: sales app
q028ai_ridesharemn	MN: rideshare app
q028ai_oddjobmn	MN: oddjob app
q028ai_entertainmentmn	MN: entertainment app
q028ai_deliverymn	MN: delivery app
q028ai_assortedmn	MN: assorted app
q029mn	MN: payment method
q029amn	MN: hourly or a fixed salary
q029a1mn	MN: bonuses, tips, or commissions
q029bmn	MN: paid piece rate
q030mn	MN: employer deductions
q031mn	MN: Income tax form
q032mn	MN: unpaid work
q033amn	MN: who decides how work is done
q033b_indcodemn	MN: full NAICS code for self-employed
q033b_indcode_2digmn	MN: NAICS code first two digits for self-emp.
q033b_indcode_3digmn	MN: NAICS code first three digits for self-emp.
q033cmn	MN: in business for themselves
q034mn	MN: can choose to stay at current job
q035mn	MN: expect job to end in next 12 mos
q036mn	MN: temp. employment agency
q037mn	MN: company contracts services out
q038mn	MN: Size of firm
q039mn	MN: Work schedule
q040amn	MN: On call work past week
q041mn	MN: Overtime work

Main Job variables	Label
q042mn	MN: Flexible hours
q043mn	MN: Supervise others
q044mn	MN: Work at home
q047mn	MN: Days paid sick leave
q047_unlimitedmn	MN: unlimited paid sick leave
q048_amn	MN: requires learn new things
q048_bmn	MN: little freedom over work
q048_cmn	MN: allows independent decisions
q048_dmn	MN: enough time to finish work
q048_emn	MN: very fast without breaks
q048_fmn	MN: work speed monitored
q048_gmn	MN: fear job loss if too slow
q048_hmn	MN: fear job loss if take break
q050_amn	MN: requires walking?
q050_bmn	MN: Use stairs or inclines?
q050_cmn	MN: Stand for four+ hours?
q050_dmn	MN: Sit for long periods?
q050_emn	MN: Stoop, crouch or kneel?
q050_fmn	MN: Bend over or twist around?
q050_gmn	MN: Lift or carry up to 50 lbs?
q050_hmn	MN: Lift or carry weights up to 10 lbs?
q050_imn	MN: Repeat a hand motion?
q050_jmn	MN: Pinch or grasp items or tools?
q050_kmn	MN: Use vibrating/power tools?
q050_lmn	MN: Ride in vehicle?
q050_mmn	MN: Use computers/devices?
q050_nmn	MN: Concentrate for long periods?
q050_omn	MN: Interact with other people?
q051mn	MN: Level of schooling required
q053_amn	MN: Bullying by supervisor
q053_bmn	MN: Bullying by coworkers
q053_cmn	MN: Bullying by customers
q054_amn	MN: Respected by supervisor
q054_bmn	MN: Respected by coworkers
q054_cmn	MN: Respected by customers
q055mn	MN: Union contract
q057mn	MN: job offers health insurance
q057amn	MN: has job health insurance
q058mn	MN: Pension plan through job

Second Job variables	Label
secondjob_type	Origin of Second Job (1=7-day job, 2=30-day job)
q018_codesc	SC: full SOC code
q018_2digsc	SC: SOC code first two digits
q018_3digsc	SC: SOC code first three digits
q019yrssc	SC: Total time in occupation in years
q020_codesc	SC: full NAICS code
q020_2digsc	SC: NAICS code first two digits
q020_3digsc	SC: NAICS code first three digits
q021yrssc	SC: Total time at company in years
q024sc	SC: Self-employed?
q025sc	SC: Self-employed: independent contractor
q026sc	SC: Employee of own business/farm
q026asc	SC: Employee: independent contractor
q027sc	SC: Employee: one company or multiple
q028sc	SC: Do app-based work?
q028asc	SC: name of app-based company?
q069ai_salessc	SC: sales app
q069ai_ridesharesc	SC: rideshare app
q069ai_oddjobsc	SC: oddjob app
q069ai_entertainmentsc	SC: entertainment app
q069ai_deliverysc	SC: delivery app
q069ai_assortedsc	SC: assorted app
q029a1sc	SC: bonuses, tips, or commissions
q030sc	SC: employer deductions
q031sc	SC: income tax form
q032sc	SC: unpaid work
q033asc	SC: who decides how work is done
q033b_indcodesc	SC: full NAICS code for self-employed
q033_indcode_2digsc	SC: NAICS code first two digits for self-emp.
q033_indcode_3digsc	SC: NAICS code first three digits for self-emp.
q033csc	SC: in business for themselves
q034sc	SC: can choose to stay at current job
q035sc	SC: expect job to end in next 12 mos
q036sc	SC: temp. employment agency
q037sc	SC: company contracts services out
q039sc	SC: Work schedule
q040asc	SC: On call work past week
q041sc	SC: Overtime work
q055sc	SC: Union contract
q057sc	SC: job offers health insurance
q057asc	SC: has job health insurance
q058sc	SC: job pension

Appendix 3: Recruitment Flowchart

