

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS) Industry and Occupation Optional Module

2022



**Centers for Disease Control
and Prevention**
National Institute for Occupational
Safety and Health

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Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS) Industry and Occupation Optional Module

2022

Authors:

Winnie Boal, MPH
Sharon Silver, MS
Jia Li, MS
Taylor Shockey, PhD, MPH

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

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Suggested Citation

NIOSH [2022]. Statistical brief for the behavioral risk factor surveillance system (BRFSS) industry and occupation optional module. By Boal W, Silver S, Li J, Shockey T. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2022-125.

DHHS (NIOSH) Publication No. 2022-125

DOI: <https://doi.org/10.26616/NIOSH PUB2022125>

June 2022

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Purpose

The purpose of this document is to provide guidance for BRFSS coordinators and researchers who would like to analyze data collected through the Behavioral Risk Factor Surveillance System (BRFSS) Industry and Occupation optional module.

Why Analyze Industry and Occupation?

More than 150 million Americans spend approximately 50% of their waking hours at work. Employment provides workers with income, and it often provides other benefits such as health insurance, retirement benefits, and personal satisfaction.

Work is a major sociodemographic contributor that can affect a worker's health status in positive and negative ways. In studies of public health, workers' industries and occupations are often used as surrogate measures for workplace exposures; therefore, industry and occupation are important public health demographic variables.

Industry and Occupation Questions

CDC's National Institute for Occupational Safety and Health (NIOSH) developed the BRFSS Industry and Occupation optional module in 2013. Each year, NIOSH promotes use of the industry and occupation module to the states and territories. [Learn more about which states have used this module over the years.](#)

In the core section of the survey, every respondent is asked about their current employment status. States that use the industry and occupation module follow with the industry and occupation questions if a respondent is employed for wages, self-employed, or out of work for less than 1 year. Approximately half of BRFSS respondents meet this criterion.

Employment Status Question

Variable Name: EMPLOY1

Are you currently...?

1. Employed for wages
2. Self-employed
3. Out of work for 1 year or more
4. Out of work for less than 1 year
5. A Homemaker
6. A Student
7. Retired
8. Unable to work
9. Refused

Occupation Question

Occupation is the kind of work someone does.

Variable Name: TYPEWORK

What kind of work do you do? For example, registered nurse, janitor, cashier, auto mechanic.

Industry Question

Industry is the kind of activity at someone's place of work.

Variable Name: TYPEINDS

What kind of business or industry do you work in? For example, hospital, elementary school, clothing manufacturing, restaurant.

Coding Industry and Occupation Data

When answering the industry and occupation questions, respondents provide a description of their work (e.g., occupation: registered nurse, industry: hospital). Each industry and occupation description must be assigned a standardized numeric code so that public health researchers can analyze the data. If respondents report more than one job, only their main job is coded. [Get more information on industry and occupation coding.](#) NIOSH processes the original industry and occupation free text responses into the standardized industry and occupation codes and merges the coded records with the public use dataset to create a coded dataset.

Understanding the Classification Systems to Code Industry and Occupation Data

In the U.S., there are several classification systems that assign codes to each specific industry and occupation. BRFSS industry and occupation data can be analyzed using NAICS codes, SOC codes, and Census codes. These classification systems are updated periodically. Different years of BRFSS industry and occupation data may have different schemes and may require use of a coding crosswalk. [Get more information on Census crosswalks.](#)

Industry

- The [North American Industry Classification System \(NAICS\)](#) is the federal standard for classifying industry. Each digit in a NAICS code is part of a series of progressively narrower categories. The more digits in the code, the more detailed the classification. NAICS codes are revised every five years.

Occupation

- The [Standard Occupational Classification System \(SOC\)](#) is the federal standard for classifying occupation. Like NAICS, each digit is part of a series of progressively narrower categories. The more digits in the code (other than terminal zeros), the more detailed the classification. SOC codes are revised every five years in the year following the revision of NAICS codes.

U.S. Census Industry and Occupation Codes

- The U.S. Census Bureau created its own 4-digit industry and occupation codes which are based on NAICS and SOC codes but are not hierarchical.

The [U.S. Census Bureau Industry and Occupation Code Lists and Crosswalks](#) are available to the public online.

Timeline for the Industry and Occupation Data

BRFSS datasets with industry and occupation have been created since survey year 2013 and become available approximately 12 months after the year's survey is completed and usually within 3–6 months after the public use dataset (without industry and occupation) becomes available.

Accessing the Industry and Occupation Data

CDC Researchers

To obtain the multi-state aggregated BRFSS industry and occupation dataset:

- NIOSH researchers should contact the NIOSH BRFSS project officer in the Division of Field Studies and Engineering (DFSE) to sign NIOSH's data use agreement (DUA) with the Population Health Surveillance Branch (PHSB) in the National Center for Chronic Disease Prevention and Health Promotion, which administers the BRFSS program.
- Researchers in other CDC centers can request permission from PHSB to access the coded dataset by signing a DUA. CDC researchers should contact PHSB for more information.

Researchers outside of CDC

To obtain the multi-state aggregated BRFSS industry and occupation dataset:

- The industry and occupation data are sensitive and are not included in the public use datasets released by the BRFSS program every year (<https://www.cdc.gov/brfss>). This is because, theoretically, it could be possible to identify

an individual respondent based on the year, state, demographic characteristics, and industry and occupation.

- Researchers outside of CDC may access industry and occupation data by going through CDC's National Center for Health Statistics (NCHS)'s [Research Data Center \(RDC\)](#).

Please note:

- There is a fee for using datasets through the RDC.
- The RDC requires researchers to [submit a research proposal](#) outlining the need for sensitive data and identifying potential disclosure risks. When completing the proposal, researchers should enter "BRFSS" in the "Non-NCHS" data box and "Not applicable – data hosting" in the "NCHS" line.
- Once the proposal has been approved, the RDC will work with the researcher to create a dataset.

To obtain an individual state or territory's BRFSS industry and occupation dataset:

- The industry and occupation coded data can be accessed by external researchers through data requests submitted to BRFSS state coordinators. Industry and occupation data is available with limitations, to remove risk of inferential disclosure of identity.

Grouping Industries and Occupations for Analysis

Workers with similar occupations or industries may have to be grouped so that the sample of respondents within the workforce of interest is large enough to produce reliable estimates. Occupational codes can be grouped in different ways. Each researcher must decide how to group industry and occupation codes based on the sample size available to them, the distribution of codes, and their research question. As surrogates for workplace exposures, the codes grouped together should comprise workers with similar jobs. NAICS and SOC are hierarchical systems, which makes grouping easier.

One commonly used grouping system is that created by CDC's National Center for Health Statistics (NCHS) for their National Health Interview Survey (NHIS). NCHS refers to them as "recodes." For both industry and occupation, there is a "simple" or less detailed system corresponding to NAICS 2-digit industry sectors and SOC major occupation groups and a more "detailed" system. The NHIS systems group Census codes; they do not directly group NAICS or SOC codes. The NHIS recodes are revised periodically to correspond to revisions of the Census industry and occupation coding systems, which in turn, are revised based on NAICS and SOC revisions.

The 2013 NHIS recodes correspond to 2010 Census codes, 2007 NAICS codes, and 2010 SOC codes. The 2013 NHIS industry and occupation recodes with their corresponding industry and occupation titles are listed in Appendix C. SAS code for creating the 2013 NHIS simple and detailed industry and occupation recodes listed in the linked NHIS PDF file is located in Appendix B of this document (below).

Analysis Considerations

For information on the BRFSS program, the overall survey, and general analysis information, please visit the following links:

- [About BRFSS](#)
- [BRFSS Data Quality, Validity, and Reliability](#)
- [BRFSS Prevalence Data and Data Analysis Tools](#)
- [BRFSS Statistical Briefs](#)

The [annual survey data and documentation](#) includes a BRFSS Overview, BRFSS Codebook, Summary Data Quality Report with Response Rates, and Complex Sampling Weights and Preparing Module Data for Analysis. There are several issues to consider when analyzing industry and occupation data.

Employment Status

Industry and occupation are collected and coded when a respondent's employment status (EMPLOY1) at the time of the interview is one of the following:

- 1 employed for wages
- 2 self-employed OR
- 4 out of work for less than 1 year

When defining the employed subpopulation for analysis, in order to ensure only eligible respondents are included, it is important to include a statement that EMPLOY1 includes some combination of categories 1, 2, or 4 but does not include categories 3, 5, 6, 7, 8, or 9.

The employment categories you include will depend on your research question. Researchers may limit their analyses to respondents currently working (employed for wages and self-employed). A consideration for the short-term (< 1 year) out of work group (category 4) is that the sample size is much smaller, and the percentage of missing industry and occupation is much higher, than for the currently employed. However, because many of the BRFSS metrics are collected over the past year, some researchers elect to analyze all three categories (1, 2, and 4) together.

Analysis of Subpopulations

For complex survey sample data, correct variance estimates can only be generated when all respondents surveyed are included in the analysis. For this reason, "by" or "where" statements should not be used to generate results for specific groups (subpopulations) in SAS. Instead, the subpopulations for analysis should be specified in a DOMAIN statement in SAS. For more information, [see the SAS/STAT User's Guide on The SURVEYLOGISTIC Procedure: DOMAIN Statement](#). A SUBPOPN or SUBPOPX statement in SUDAAN, or a SUBPOP option in a SVY command in STATA, or the SUBSET.SVY.DESIGN option in the survey package of R can be used for the same purpose.

Analyses using the industry and occupation variables must be limited to respondents where EMPLOY1 = 1, 2, or 4 and where neither industry nor occupation was

coded to a “non-paid worker code” (see the Missing Industry or Occupation Data section below for a definition of “non-paid worker codes”). The easiest way to use the DOMAIN statement in SAS is to create a new variable that identifies the subpopulation. For example, the recently employed subpopulation may be defined as respondents whose employment status is employed for wages, self-employed, or out of work less than one year (EMPLOY1 = 1, 2, or 4). Alternatively, the currently employed subpopulation may be defined as respondents whose employment status is employed for wages or self-employed (EMPLOY1 = 1 or 2). The new variable should then be used in the SAS DOMAIN statement. For SUDAAN, the expression to specify subpopulation can be directly included in the SUBPOP or SUBPOPX statement. For STATA, it can be included in the SUBPOP option in the SVY command. In R, the same expression can be included in the SUBSET function to be used in the survey design option.

Industry vs. Occupation

Depending on the research question, either industry or occupation (or both) may be appropriate for analysis. Outcomes can also be compared by occupation within different industries, as [was done for a NIOSH study of patient care aides](#) and a [Washington State study on health care support workers](#). Occupation is more commonly analyzed than industry, since occupation is more specific to what the worker does. Industries contain many occupations from chief executive to janitor, so the work exposures and sociodemographic characteristics of workers vary more within industries than within occupations. [See more examples of how the industry and occupation data have been used by researchers.](#)

Active-Duty Military

Another consideration is whether to include respondents who are active-duty service members in the analyses. The BRFSS survey does not include institutionalized adults (such as those living in military barracks) or adults living outside the United States and its participating territories (such as those serving in the military overseas). However, there are active-duty service members who are eligible for the BRFSS survey because they live in homes in US states and participating territories. NIOSH codes them to special military codes that are not part of the Census system, and they are included in the BRFSS industry and occupation Census code variables. These codes can be found [here](#). Although industry and occupation codes for service members are included in the BRFSS-IO datasets, because of the BRFSS exclusions, NIOSH researchers do not consider BRFSS to be representative of active-duty service members and do not include them in their analyses.

For civilians employed by the military, industry is coded to Census code 9590 (public administration/national security and international affairs), and occupation is coded to the regular Census occupation code. NIOSH researchers include these respondents in their analyses. Veterans who were currently employed at the time of their interview or who had been employed in the previous 12 months are coded to their current/recent industry and occupation, not to their former military service. BRFSS has a separate variable for whether a respondent is a veteran.

Variables in the Industry and Occupation Datasets

As an illustration of the variables typically available in an industry and occupation coded dataset, Appendix A (below) provides a list of the variables available in the 2018 BRFSS industry and occupation dataset. The variable list will differ somewhat from year to year depending on changes to the survey and which variables are in the public use dataset (which can be found [here](#)). In addition, NIOSH periodically updates the version of the industry and occupation coding systems (Census, NAICS, and SOC) to which the text fields are coded, so these variables will change accordingly. Appendix D provides a crosswalk from 2002 Census codes to 2010 Census codes. Older datasets included 2002 Census codes while newer datasets have included 2010 Census codes. The crosswalk should help researchers align these older datasets with the newer datasets for analyses. In instances where one Census code became many Census codes (for example, 2002 code – 0130 Human resources managers became 2010 codes – 0135 Compensation and benefits managers, 0136 Human resources managers, and 0137 Training and development managers), the text response would be evaluated and classified according to best fit as determined by a human coder or the NIOSH auto-coder. Additionally, data users can visit [this link](#) and send records through NIOCCS (NIOSH’s auto-coding system) if there are issues.

Analyzing Industry and Occupation Using NAICS or SOC Variables

For BRFSS-IO datasets through 2019, the text fields were coded directly to Census codes, which were then cross-walked to NAICS and SOC codes. Starting with survey year 2020, text fields are coded directly to NAICS and SOC and then cross-walked to Census codes.

When cross-walked from Census codes, the output for NAICS and SOC codes sometimes contain complex entries that include multiple codes and portions of codes, making them unwieldy for analysis. These original variables are named NAICS2007 and SOC2010. To make these variables easier to analyze, NIOSH converts the complex NAICS and SOC codes in NAICS2007 and SOC2010 to single codes in variables named `_2007NEWNAICS` and `_2010NEWSOC` by “rounding up” the complex codes to the next higher common code in the NAICS or SOC hierarchical system.

Here are some examples illustrating how complex NAICS2007 and SOC2010 entries were converted to single `_2007NEWNAICS` and `_2010NEWSOC` codes:

NAICS2007	<code>_2007NEWNAICS</code>
1131, 1132	113
22131, 22133	2213
31324, 3151	31

SOC2010	_2010NEWSOC
33992, 33993	3399
4242, 4246	424
521, 52211, 52219	52
922, part of 92115	92

Researchers who want to analyze their data by NAICS or SOC codes should use `_2007NEWNAICS` and `_2010NEWSOC`. However, even with `_2007NEWNAICS` or `_2010NEWSOC`, the level of detail (i.e., the number of digits) for industry and occupation varies, so the researcher will have to decide whether and how to combine closely related NAICS and SOC codes for analysis.

Missing Industry or Occupation Data

There are a number of reasons industry or occupation may be missing from individual BRFSS records.

When the industry text field is blank or contains words to the effect of unknown, don't know, not applicable, or refused, or when the text is too vague to be coded, a code of 9990 is entered in the Census industry code field. Under the same circumstances in the occupation text field, a code of 9900 is entered in the Census occupation code field. 9990 and 9900 are codes for missing data. The coding rules for occupation often require that industry be coded to code occupation, so if industry is missing, then occupation may be missing as well. In BRFSS datasets, there is a higher percentage of records missing occupation than missing industry.

The industry and occupation text fields may be blank for an unknown reason (such as the interviewer left them blank), but there are three other known reasons why the fields may be blank. First, the fields are supposed to be blank if `EMPLOY1` ≠ 1, 2, or 4. Second, if the respondent ended the survey before the industry and occupation questions were asked, the industry and occupation text fields will be blank. The third situation that has become more common in recent years — a respondent is called on a cell phone number that does not match the respondent's state of residence. In this case, only the core questions, not the optional module questions, such as industry and occupation, are asked, so the industry and occupation text fields will be blank. All of these blank fields will be coded to 9990/9900.

Another category of missing industry and occupation data involves records where industry and occupation were collected and coded but should not have been because the respondent was not eligible to be in the study population. The industry and occupation questions are only asked, and the responses coded, when the respondents report their current employment status (`EMPLOY1`) is 1 (employed for wages), 2 (self-employed), or 4 (out of work for less than 1 year). It is important that industry and occupation specific analyses be limited to respondents included in these three categories. However, sometimes respondents will say they are

currently or recently employed (and hence, coded to EMPLOY1 in (1,2,4) and asked the industry and occupation questions), but will respond to the industry and occupation questions that they are retired, a student, a homemaker, or unable to work, even though these are not considered paid jobs. Because of their EMPLOY1 status, their industry and occupation responses are coded. NIOSH codes these responses and enters them in the BRFSS Census industry and occupation variable fields. The codes for these responses, however, are special “non-paid worker codes” that are not part of the official Census system. These codes can be found [here](#). Although the Census variables for these records contain codes, NIOSH treats these records as missing data since they should not be included in study populations — records containing non-paid worker codes should be omitted from industry and occupation analyses using the SUBPOPX statement in SUDAAN or the DOMAIN statement in SAS as described above in the *Analysis of Subpopulations* section.

Final Weight Variable

For states that use the full sample for the industry and occupation module, `_LLCPWT` is to be used as the weight variable. For states that use the split questionnaires, i.e., version data (version 1 or version 2 or version 3) for the industry and occupation module, the module-specific weight (`_LLCPWTV1` or `_LLCPWTV2` or `_LLCPWV3`) is to be used as the weight variable. The final weight variable in the multi-state aggregated BRFSS industry and occupation datasets is `_FINALWT`. `_FINALWT` accounts for whether a state split its survey for the industry and occupation module or not. For more information on versions of the data and how module weights were created, see the following documentation (the link is for 2018): [BRFSS Complex Sampling Weights and Preparing 2018 BRFSS Module Data for Analysis \(cdc.gov\)](#).

Combining Years

To have a large enough sample size to examine relatively rare health outcomes or industries or occupations with small annual sample sizes, it will be necessary to combine data from multiple years. When creating a multi-year dataset, it is important to adjust the sampling weight in order to obtain the correct annual population estimates.

Before proceeding to combine multiple years of data, read the file “Complex Sampling Weights and Preparing BRFSS Module Data for Analysis” (here is the link for 2018): [BRFSS Complex Sampling Weights and Preparing 2018 BRFSS Module Data for Analysis \(cdc.gov\)](#).

For combining data from multiple years in each state, follow the instruction described in the above BRFSS documentation:

First, check the sample size of each year. When sample sizes are close (e.g., a state collected industry and occupation on the same sample on all years to be included in the multi-year data), divide the original weight variable by the number of years

of data to obtain the adjusted weight. When sample sizes are different (e.g., a state collected industry and occupation on the full sample in some years and on a sub-sample on other years), account for the sample size differences by adjusting the weight proportionally as shown below:

1. Sum up the total sample size for all the years of interest and compute the proportion for each year.
2. Multiply the original weight of each year by the proportion of sample size of that year to obtain the final adjusted weight.

Note that when using this approach to adjust weight in the multi-year data, the estimates from the multi-year data will be approximately equal to a sample-size-weighted average of all annual estimates, i.e., the estimates will be heavily influenced by the year that has the largest sample. However, if the desired multi-year estimate is the arithmetic average of all annual estimates, one should adjust the weight in the multi-year data by simply dividing the original weight by number of years a state contributes to the data, regardless of the sample sizes. In the NIOSH created multi-state-multi-year datasets, the later approach has been used for easy interpretation of the resulting estimates.

Analyzing Multiple Modules

The industry and occupation questions are in an optional module. If analyzed with variables from the core section of the survey, the NIOSH-created industry and occupation module data can be used directly. However, if the industry and occupation variables are to be analyzed with variables from one or more other optional modules, then the dataset and weight may need to be reconstructed.

Before proceeding to analyze multiple modules, read the file “Complex Sampling Weights and Preparing BRFSS Module Data for Analysis” (here is the link for 2018): [BRFSS Complex Sampling Weights and Preparing 2018 BRFSS Module Data for Analysis \(cdc.gov\)](#). Then review which states used all of the modules of interest for your survey year, because not all states that elect the optional industry and occupation module would necessarily collect data on the same other optional modules (here is the link for 2018): [CDC - BRFSS - 2018 BRFSS Modules Used by Category](#). Only states that elect all modules of interest, including the industry and occupation module, can proceed to construct the multi-module data. Since a state may use either the full sample or a sub-sample for a module, it is possible that the industry and occupation module and the other modules of interest were on different versions of the data. In such cases, multi-module data cannot be constructed. For a given state, only when the industry and occupation module data and the other module data are overlapping (either all on the same version of data or some on the full data and others on the same version of data) can one construct a multi-module data. In such case, the sampling weight from the smaller dataset should be used as the weight in the multi-module data.

For more information on analyzing multiple modules, including how to combine modules, please contact brfssio@cdc.gov.

Limitations

There are several limitations to consider when using these data. All BRFSS data, including Industry and occupation, are self-reported and may be subject to recall or social desirability bias. BRFSS data are cross-sectional and thus cannot be used to make causal inferences. A percentage of industry and occupation responses are missing or too vague to code, reducing the sample size and potentially introducing bias if the missingness is differential by industry or occupation. There could also be misclassification bias due to errors in coding the industry and occupation text fields, particularly if the participants did not provide clear responses. Since not all states use the industry and occupation optional module, results are not nationally representative. Because the employment status, industry, and occupation variables are not included in the survey weights, the BRFSS sample may not be representative of the adult working population.

Please visit the [NIOSH BRFSS website](#) and [NIOSH's Collecting and Using Industry and Occupation Data website](#) for more information on the BRFSS industry and occupation optional module and how the dataset is produced.

For additional information, please email brfssio@cdc.gov

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APPENDIX A ■

SAS Proc Contents for the 2018 BRFSS Industry and Occupation Dataset

Contents BRFS18IO.sas7bdat, a SAS Dataset of 2018 BRFSS Data Modified to Include Module 20: Industry and Occupation

The CONTENTS Procedure

Data Set Name	BRF18.BRFS18IO	Observations	244357
Member Type	DATA	Variables	200
Engine	V9	Indexes	0
Created	01/07/2020 15:54:17	Observation Length	1624
Last Modified	01/07/2020 15:54:17	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_32		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	131072
Number of Data Set Pages	3055
First Data Page	1
Max Obs per Page	80
Obs in First Data Page	62
Number of Data Set Repairs	0
ExtendObsCounter	YES
Filename	\\cdc.gov\project\NIOSH_DSHEFS_SB_ BRFSS\User Folders\Tsai\2018
\\brfs18io.sas7bdat	
Release Created	9.0401M3
Host Created	W32_8PRO

Alphabetic List of Variables and Attributes

#	Variable	Type	Len	Format	Label
47	ADDEPEV2	Num	8	AD2DEPEV.	EVER TOLD YOU HAD A DEPRESSIVE DISORDER
78	ALCDAY5	Num	8	ALC5DAY.	DAYS IN PAST 30 HAD ALCOHOLIC BEVERAGE
41	ASTHMA3	Num	8	AST3HMA.	EVER TOLD HAD ASTHMA
42	ASTHNOW	Num	8	ASTHNOW.	STILL HAVE ASTHMA
79	AVEDRNK2	Num	8	AVE2DRNK.	AVG ALCOHOLIC DRINKS PER DAY IN PAST 30
103	BLDSTOOL	Num	8	BLDSTOOL.	EVER HAD BLOOD STOOL TEST USING HOME KIT
68	BLIND	Num	8	BLIND.	BLIND OR DIFFICULTY SEEING
22	CADULT	Num	8	CADULT.	ARE YOU 18 YEARS OF AGE OR OLDER?
24	CCLGHOUS	Num	8	CCLGHOUS.	DO YOU LIVE IN COLLEGE HOUSING?
14	CELLFON4	Num	8	CELL4FON.	CELLULAR TELEPHONE
21	CELLFON5	Num	8	CELL5FON.	IS THIS A CELL TELEPHONE?
45	CHCCOPD1	Num	8	CHC1COPD.	(EVER TOLD) YOU HAVE (COPD) CHRONIC OBSTRUCTIVE PULMONARY DISEASE, EMPHYSEMA OR CHRONIC BRONCHITIS?
48	CHCKDNY1	Num	8	CHC1KDNY.	(EVER TOLD) YOU HAVE KIDNEY DISEASE?
44	CHCOCNCR	Num	8	CHCOCNCR.	(EVER TOLD) YOU HAD ANY OTHER TYPES OF CANCER?
43	CHCSCNCR	Num	8	CHCSCNCR.	(EVER TOLD) YOU HAD SKIN CANCER?
35	CHECKUP1	Num	8	CHECK1UP.	LENGTH OF TIME SINCE LAST ROUTINE CHECKUP
62	CHILDREN	Num	8	CHILDREN.	NUMBER OF CHILDREN IN HOUSEHOLD
12	COLGHOUS	Num	8	COLGHOUS.	DO YOU LIVE IN COLLEGE HOUSING?
59	CPDEMO1B	Num	8	CP1DEMO.	DO YOU HAVE A CELL PHONE FOR PERSONAL USE?
25	CSTATE1	Num	8	C1STATE.	DO YOU CURRENTLY LIVE IN (STATE)?
10	CTELENM1	Num	8	CTELE1NM.	CORRECT TELEPHONE NUMBER?
20	CTELNUM1	Num	8	CTEL1NUM.	CORRECT PHONE NUMBER?
39	CVDCRHD4	Num	8	CVD4CRHD.	EVER DIAGNOSED WITH ANGINA OR CORONARY HEART DISEASE
38	CVDINFR4	Num	8	CVD4INFR.	EVER DIAGNOSED WITH HEART ATTACK
40	CVDSTRK3	Num	8	CVD3STRK.	EVER DIAGNOSED WITH A STROKE

- Continued -

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#	Variable	Type	Len	Format	Label
67	DEAF	Num	8	DEAF.	ARE YOU DEAF OR DO YOU HAVE SERIOUS DIFFICULTY HEARING?
69	DECIDE	Num	8	DECIDE.	DIFFICULTY CONCENTRATING OR REMEMBERING
50	DIABAGE2	Num	8	DIAB2AGE.	AGE WHEN TOLD HAD DIABETES
49	DIABETE3	Num	8	DIA3BETE.	(EVER TOLD) YOU HAVE DIABETES
72	DIFFALON	Num	8	DIFFALON.	DIFFICULTY DOING ERRANDS ALONE
71	DIFFDRES	Num	8	DIFFDRES.	DIFFICULTY DRESSING OR BATHING
70	DIFFWALK	Num	8	DIFFWALK.	DIFFICULTY WALKING OR CLIMBING STAIRS
7	DISPCODE	Num	8		FINAL DISPOSITION
80	DRNK3GE5	Num	8	DRNK35GE.	BINGE DRINKING
163	DRNKANY5	Num	8	DRNK5ANY.	DRINK ANY ALCOHOLIC BEVERAGES IN PAST 30 DAYS
89	DRNKDRI2	Num	8	DRNK2DRI.	DID YOU DRIVE AFTER HAVING TOO MUCH TO DRINK IN THE PAST 30 DAYS?
164	DROCDY3_	Num	8	DROCDY3_.	COMPUTED DRINK-OCCASIONS-PER-DAY
55	EDUCA	Num	8	EDUCA.	EDUCATION LEVEL
61	EMPLOY1	Num	8	EMPLOY1F.	EMPLOYMENT STATUS
36	EXERANY2	Num	8	EXER2ANY.	EXERCISE IN PAST 30 DAYS
86	FALL12MN	Num	8	FALL12MN.	HAD FALL PAST TWELVE MONTHS
87	FALLINJ3	Num	8	FALL3INJ.	INJURED IN FALL
83	FLSHTMY2	Num	8	FLSHT2MY.	WHEN RECEIVED MOST RECENT SEASONAL FLU SHOT/SPRAY
82	FLUSHOT6	Num	8	FLU6SHOT.	ADULT FLU SHOT/SPRAY PAST 12 MOS
2	FMONTH	Num	8	FMONTH.	FILE MONTH
28	GENHLTH	Num	8	GENHLTH.	GENERAL HEALTH
96	HADHYST2	Num	8	HAD2HYST.	HAD HYSTERECTOMY
90	HADMAM	Num	8	HADMAM.	HAVE YOU EVER HAD A MAMMOGRAM
92	HADPAP2	Num	8	HAD2PAP.	EVER HAD A PAP TEST
106	HADSGCO1	Num	8	HAD1SGCO.	WAS LAST TEST A SIGMOIDOSCOPY OR COLONOSCOPY
105	HADSIGM3	Num	8	HAD3SIGM.	EVER HAD SIGMOIDOSCOPY/ COLONOSCOPY
46	HAVARTH3	Num	8	HAV3ARTH.	TOLD HAVE ARTHRITIS
65	HEIGHT3	Num	8	HEIGHT.	REPORTED HEIGHT IN FEET AND INCHES
27	HHADULT	Num	8	HHADULT.	NUMBER OF ADULTS IN HOUSEHOLD

- Continued -

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
110	HIVRISK5	Num	8	HIV5RISK.	DO ANY HIGH RISK SITUATIONS APPLY
108	HIVTST6	Num	8	HIV6TST.	EVER TESTED HIV
109	HIVTSTD3	Num	8	HIV3TSTD.	MONTH AND YEAR OF LAST HIV TEST
32	HLTHPLN1	Num	8	HLTH1PLN.	HAVE ANY HEALTH CARE COVERAGE
91	HOWLONG	Num	8	HOWLONG.	HOW LONG SINCE LAST MAMMOGRAM
95	HPLSTTST	Num	8	HPLSTTST.	HOW LONG SINCE YOUR LAST HPV TEST?
94	HPVTEST	Num	8	HPVTEST.	HAVE YOU EVER HAD AN HPV TEST?
152	HTIN4	Num	8	HT4IN.	COMPUTED HEIGHT IN INCHES
153	HTM4	Num	8	HT4M.	COMPUTED HEIGHT IN METERS
3	IDATE	Char	8		INTERVIEW DATE
5	IDAY	Char	2		INTERVIEW DAY
84	IMFVPLAC	Num	8	IMFVPLAC.	WHERE DID YOU GET YOUR LAST FLU SHOT/VACCINE?
4	IMONTH	Char	2		INTERVIEW MONTH
63	INCOME2	Num	8	IN2COME.	INCOME LEVEL
6	IYEAR	Char	4		INTERVIEW YEAR
15	LADULT	Num	8		ARE YOU 18 YEARS OF AGE OR OLDER?
26	LANDLINE	Num	8	LANDLINE.	DO YOU ALSO HAVE A LANDLINE TELEPHONE?
51	LASTDEN4	Num	8	LAST4DEN.	LAST VISITED DENTIST OR DENTAL CLINIC
93	LASTPAP2	Num	8	LAST2PAP.	HOW LONG SINCE LAST PAP TEST
107	LASTSIG3	Num	8	LAST3SIG.	TIME SINCE LAST SIGMOIDOSCOPY/ COLONOSCOPY
76	LASTSMK2	Num	8	LAST2SMK.	INTERVAL SINCE LAST SMOKED
104	LSTBLDS3	Num	8	LST3BLDS.	TIME SINCE LAST BLOOD STOOL TEST
54	MARITAL	Num	8	MARITAL.	MARITAL STATUS
81	MAXDRNKS	Num	8	MAXDRNKS.	MOST DRINKS ON SINGLE OCCASION PAST 30 DAYS
34	MEDCOST	Num	8	MEDCOST.	COULD NOT SEE DR. BECAUSE OF COST
30	MENTHLTH	Num	8	MENTHLTH.	NUMBER OF DAYS MENTAL HEALTH NOT GOOD
115	MSCODE	Num	5	MSCODE.	METROPOLITAN STATUS CODE
16	NUMADULT	Num	8		NUMBER OF ADULTS IN HOUSEHOLD

- Continued -

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
57	NUMHHOL3	Num	8	NUM3HHOL.	HOUSEHOLD TELEPHONES
17	NUMMEN	Num	8		NUMBER OF ADULT MEN IN HOUSEHOLD
58	NUMPHON3	Num	8	NUM3PHON.	RESIDENTIAL PHONES
18	NUMWOMEN	Num	8		NUMBER OF ADULT WOMEN IN HOUSEHOLD
97	PCPSAAD3	Num	8	PCPSA3AD.	HAS A HEALTH PROFESSIONAL EVER TALKED WITH YOU ABOUT THE ADVANTAGES OF THE PSA TEST?
98	PCPSADI1	Num	8	PCPSA1DI.	HAS A HEALTH PROFESSIONAL EVER TALKED WITH YOU ABOUT THE DISADVANTAGES OF THE PSA TEST?
99	PCPSARE1	Num	8	PCPSA1RE.	HAS A DOCTOR EVER RECOMMENDED THAT YOU HAVE A PSA TEST?
102	PCPSARS1	Num	8	PCPSA1RS.	WHAT WAS THE MAIN REASON YOU HAD THIS PSA TEST?
33	PERSDOC2	Num	8	PERS2DOC.	MULTIPLE HEALTH CARE PROFESSIONALS
29	PHYSHLTH	Num	8	PHYSHLTH.	NUMBER OF DAYS PHYSICAL HEALTH NOT GOOD
85	PNEUVAC4	Num	8	PNEU4VAC.	PNEUMONIA SHOT EVER
31	POORHLTH	Num	8	POORHLTH.	POOR PHYSICAL OR MENTAL HEALTH
66	PREGNANT	Num	8	PREGNANT.	PREGNANCY STATUS
100	PSATEST1	Num	8	PSA1TEST.	EVER HAD PSA TEST
101	PSATIME	Num	8	PSATIME.	TIME SINCE LAST PSA TEST
11	PVTRES1	Num	8	PVT1RES1.	PRIVATE RESIDENCE?
23	PVTRES3	Num	8	PVT3RES1.	DO YOU LIVE IN A PRIVATE RESIDENCE?
112	QSTLANG	Num	8	QSTLANG.	LANGUAGE IDENTIFIER
111	QSTVER	Num	8		QUESTIONNAIRE VERSION IDENTIFIER
56	RENTHOM1	Num	8	RENT1HOM.	OWN OR RENT HOME
188	REPDEPTH	Num	8		REPLICATE DEPTH
187	REPNUM	Num	8		REPLICATE NUMBER
52	RMVTETH4	Num	8	RMV4TETH.	NUMBER OF PERMANENT TEETH REMOVED
19	SAFETIME	Num	8		SAFE TIME TO TALK?
88	SEATBELT	Num	8	SEATBELT.	HOW OFTEN USE SEATBELTS IN CAR?

- Continued -

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
8	SEQNO	Char	10		ANNUAL SEQUENCE NUMBER
53	SEX1	Num	8	SEX1F.	RESPONDENTS SEX
37	SLEPTIM1	Num	8	SLEP1TIM.	HOW MUCH TIME DO YOU SLEEP
74	SMOKDAY2	Num	8	SMOK2DAY.	FREQUENCY OF DAYS NOW SMOKING
73	SMOKE100	Num	8	SMOK100_.	SMOKED AT LEAST 100 CIGARETTES
13	STATERE1	Num	8		RESIDENT OF STATE
75	STOPSMK2	Num	8	STOP2SMK.	STOPPED SMOKING IN PAST 12 MONTHS
77	USENOW3	Num	8	USE3NOW.	USE OF SMOKELESS TOBACCO PRODUCTS
60	VETERAN3	Num	8	VET3ERAN.	ARE YOU A VETERAN
64	WEIGHT2	Num	8	WEIGHT.	REPORTED WEIGHT IN POUNDS
154	WTKG3	Num	8		COMPUTED WEIGHT IN KILOGRAMS
192	_2007newnaics	Char	6		2007 NAICS codes modified to eliminate multiple codes
194	_2010newsoc	Char	7		2010 SOC codes modified to eliminate multiple codes
150	_AGE80	Num	8	_AGE80F.	IMPUTED AGE VALUE COLLAPSED ABOVE 80
149	_AGE65YR	Num	8	_AGE65YR.	REPORTED AGE IN TWO AGE GROUPS CALCULATED VARIABLE
148	_AGEG5YR	Num	8	_AGEG5YR.	REPORTED AGE IN FIVE-YEAR AGE CATEGORIES CALCULATED VARIABLE
151	_AGE_G	Num	8	_AGE_G.	IMPUTED AGE IN SIX GROUPS
183	_AIDTST3	Num	8	_3AIDTST.	EVER BEEN TESTED FOR HIV CALCULATED VARIABLE
139	_ALTETH3	Num	8	_AL3TETH.	ADULTS AGED 65+ WHO HAVE HAD ALL THEIR NATURAL TEETH EXTRACTED
136	_ASTHMS1	Num	8	_1ASTHMS.	COMPUTED ASTHMA STATUS
155	_BMI5	Num	8	_5BMI.	COMPUTED BODY MASS INDEX
156	_BMI5CAT	Num	8	_BMI5CAT.	COMPUTED BODY MASS INDEX CATEGORIES
135	_CASTHM1	Num	8	_1CASTHM.	CURRENT ASTHMA CALCULATED VARIABLE
121	_CHISPNC	Num	8	_CHISPNC.	CHILD HISPANIC, LATINO/A, OR SPANISH ORIGIN CALCULATED VARIABLE
158	_CHLDCNT	Num	8	_CHLDCNT.	COMPUTED NUMBER OF CHILDREN IN HOUSEHOLD

- Continued -

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
185	_CLCWTV1	Num	8		VERSION 1 CHILD WEIGHT: LAND-LINE AND C
186	_CLCWTV2	Num	8		VERSION 2 CHILD WEIGHT: LAND-LINE AND C
124	_CLLCPWT	Num	8		FINAL CHILD WEIGHT: LAND-LINE AND CELL-PHONE DATA
178	_COL10YR	Num	8	_COL10YR.	RESPONDENTS AGED 50-75 WHO HAVE HAD A COLONOSCOPY IN THE PAST 10 YEARS
123	_CPRACE	Num	8	_CPRACE.	PREFERRED CHILD RACE CATEGORIES
122	_CRACE1	Num	8	_C1RACE.	CHILD NON-HISPANIC RACE INCLUDING MULTIRACIAL
182	_CRCREC	Num	8	_CRCREC.	RESPONDENTS AGED 50-75 WHO HAVE FULLY MET THE USPSTF RECOMMENDATION
140	_DENVST3	Num	8	_DEN3VST.	ADULTS WHO HAVE VISITED A DENTIST, DENTAL HYGIENIST OR DENTAL CLINIC WITHIN THE PAST YEAR
137	_DRDXAR1	Num	8	_DRDX1AR.	RESPONDENTS DIAGNOSED WITH ARTHRITIS
172	_DRNKDRV	Num	8	_DRNKDRV.	DRINKING AND DRIVING
166	_DRNKWEK	Num	8	_DRNKWEK.	COMPUTED NUMBER OF DRINKS OF ALCOHOL BEVERAGES PER WEEK
126	_DUALCOR	Num	8		DUAL PHONE USE CORRECTION FACTOR
125	_DUALUSE	Num	8	_DUALUSE.	DUAL PHONE USE CATEGORIES
159	_EDUCAG	Num	8	_EDUCAG.	COMPUTED LEVEL OF EDUCATION COMPLETED CATEGORIES
138	_EXTETH3	Num	8	_EX3TETH.	RISK FACTOR FOR HAVING HAD PERMANENT TEETH EXTRACTED
168	_FLSHOT6	Num	8	_6FLSHOT.	FLU SHOT CALCULATED VARIABLE
181	_FOBTFS	Num	8	_FOBTFS.	RESPONDENTS AGED 50-75 WHO HAVE HAD A BLOOD STOOL TEST WITHIN THE PAST 3 YEARS AND A SIGMOIDOSCOPY WITHIN THE PAST 5 YEARS
180	_FS5YR	Num	8	_FS5YR.	RESPONDENTS AGED 50-75 WHO HAVE HAD A SIGMOIDOSCOPY WITHIN THE PAST 5 YEARS
131	_HCVU651	Num	8	_HCV165U.	RESPONDENTS AGED 18-64 WITH HEALTH CARE COVERAGE

- Continued -

Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
179	_HFOB3YR	Num	8	_HFOB3YR.	RESPONDENTS AGED 50–75 WHO HAVE HAD A BLOOD STOOL TEST WITHIN THE PAST 3 YEARS
143	_HISPANC	Num	8	_HISPANC.	HISPANIC, LATINO/A, OR SPANISH ORIGIN CALCULATED VARIABLE
120	_IMPRACE	Num	8	_IMPRACE.	IMPUTED RACE/ETHNICITY VALUE
160	_INCOMG	Num	8	_INCOMG.	COMPUTED INCOME CATEGORIES
127	_LLCPWT2	Num	8		TRUNCATED DESIGN WEIGHT USED IN ADULT COMBINED LAN LINE AND CELL PHONE RAKING
134	_LTASTH1	Num	8	_1LTASTH.	LIFETIME ASTHMA CALCULATED VARIABLE
174	_MAM5022	Num	8	_5022MAM.	WOMEN RESPONDENTS AGED 50–74 WHO HAVE HAD A MAMMOGRAM IN THE PAST TWO YEARS
130	_MENT14D	Num	8	_MENT14D.	COMPUTED MENTAL HEALTH STATUS
113	_METSTAT	Num	8	_METSTAT.	METROPOLITAN STATUS
133	_MICHHD	Num	8	_MICHHD.	RESPONDENTS THAT HAVE EVER REPORTED HAVING CORONARY HEART DISEASE (CHD) OR MYOCARDIAL INFARCTION (MI)
142	_MRACE1	Num	8	_M1RACE.	CALCULATED NON-HISPANIC RACE INCLUDING MULTIRACIAL
129	_PHYS14D	Num	8	_PHYS14D.	COMPUTED PHYSICAL HEALTH STATUS
169	_PNEUMO3	Num	8	_3PNEUMO.	PNEUMONIA VACCINATION CALCULATED VARIABLE
141	_PRACE1	Num	8	_P1RACE.	COMPUTED PREFERRED RACE
9	_PSU	Num	8		PRIMARY SAMPLING UNIT
144	_RACE	Num	8	_RACE.	COMPUTED RACE-ETHNICITY GROUPING
145	_RACEG21	Num	8	_21RACEG.	COMPUTED NON-HISPANIC WHITES/ ALL OTHERS RACE CATEGORIES RACE/ETHNIC GROUP CODES USED IN POST-STRATIFICATION.
146	_RACEGR3	Num	8	_3RACEGR.	COMPUTED FIVE LEVEL RACE/ ETHNICITY CATEGORY.
147	_RACE_G1	Num	8	_RACE1_G.	COMPUTED RACE GROUPS USED FOR INTERNET PREVALENCE TABLES
118	_RAWRAKE	Num	8		RAW WEIGHTING FACTOR USED IN RAKING
165	_RFBING5	Num	8	_5RFBING.	BINGE DRINKING CALCULATED VARIABLE

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Statistical Brief for the Behavioral Risk Factor Surveillance System (BRFSS)

#	Variable	Type	Len	Format	Label
177	_RFB LDS3	Num	8	_RF3BLDS.	RESPONDENTS AGED 50–75 WHO HAVE HAD A BLOOD STOOL TEST WITHIN THE PAST YEAR
157	_RFBMI5	Num	8	_5RFBMI.	OVERWEIGHT OR OBESE CALCULATED VARIABLE
167	_RFDRHV6	Num	8	_6RFDRHV.	HEAVY ALCOHOL CONSUMPTION CALCULATED VARIABLE
128	_RFHLTH	Num	8	_RFHLTH.	ADULTS WITH GOOD OR BETTER HEALTH
173	_RFMAM21	Num	8	_21RFMAM.	WOMEN RESPONDENTS AGED 40+ WHO HAVE HAD A MAMMOGRAM IN THE PAST TWO YEARS
175	_RFPAP34	Num	8	_34RFPAP.	WOMEN RESPONDENTS AGED 21–65 WHO HAVE HAD A PAP TEST IN THE PAST THREE YEARS
176	_RFP SA22	Num	8	_RF22PSA.	MALE RESPONDENTS AGED 40+ WHO HAVE HAD A PSA TEST IN THE PAST 2 YEARS
170	_RFSEAT2	Num	8	_2RFSEAT.	ALWAYS OR NEARLY ALWAYS WEAR SEAT BELTS
171	_RFSEAT3	Num	8	_3RFSEAT.	ALWAYS WEAR SEAT BELTS
162	_RFSMOK3	Num	8	_3RFSMOK.	CURRENT SMOKING CALCULATED VARIABLE
161	_SMOKER3	Num	8	_3SMOKER.	COMPUTED SMOKING STATUS
1	_STATE	Num	8	_STATE.	STATE FIPS CODE
117	_STRWT	Num	8		STRATUM WEIGHT
116	_STSTR	Num	8		SAMPLE DESIGN STRATIFICATION VARIABLE
132	_TOTINDA	Num	8	_TOTINDA.	LEISURE TIME PHYSICAL ACTIVITY CALCULATED VARIABLE
114	_URBSTAT	Num	8	_URBSTAT.	URBAN/RURAL STATUS
119	_WT2RAKE	Num	8		DESIGN WEIGHT USED IN RAKING
184	_finalwt	Num	8		Replaces _LLCPWT as final weight variable for industry and occupation analyses due to survey versions
195	ind_auto_coded_2010	Char	1		'N' means industry Census code determined by human coder; 'C' means changed by human coder
189	indboc2010	Char	4		2010 Bureau of Census Industry codes
200	inhis2010	Num	8	IND_NHIS.	Industry NHIS simple 2-digit recode of 2010 Census codes
199	inhisdet2010	Num	8	IND_NHIS_DET.	Industry NHIS 2-digit detailed recodes of 2010 Census codes

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#	Variable	Type	Len	Format	Label
191	naics2007	Char	47		2007 North Am. Industry Classification System (NAICS) codes
196	occ_auto_coded_2010	Char	1		'N' means occupation Census code determined by human coder; 'C' means changed by human coder
190	occboc2010	Char	4		2010 Bureau of Census Occupation codes
198	onhis2010	Num	8	OCC_NHIS.	Occupation NHIS simple 2-digit recode of 2010 Census codes
197	onhisdet2010	Num	8	OCC_NHIS_DET.	Occupation NHIS detailed 2-digit recode of 2010 Census codes
193	soc2010	Char	35		2010 Standard Occupational Classification (SOC) codes

APPENDIX B ■

SAS Code for Grouping 2010 Census Industry and Occupation Codes into 2013 NHIS Simple and Detailed Recodes

INDBOC2010	2010 Bureau of Census (BOC) Industry codes
NAICS2007	2007 North American Industry Classification System (NAICS) codes
INHIS2010	Industry NHIS simple recodes of 2010 Census codes
INHISDET2010	Industry NHIS detailed recodes of 2010 Census codes
OCCBOC2010	2010 Bureau of Census (BOC) Occupation codes
SOC2010	2010 Standard Occupational Classification (SOC) codes
ONHIS2010	Occupation NHIS simple recodes of 2010 Census codes
ONHISDET2010	Occupation NHIS detailed recodes of 2010 Census codes

Program Title: "Detailed I&O Groups.SAS"
 Created: 1 April 2019
 Purpose: Provide coding for simple and detailed I&O groupings
 as developed by NHIS to other researchers
 BASED ON CODING COMPLETED FOR 2018 BRFSS DATASETS

NOTE: This code is applicable to 2010 BOC codes ONLY

PROC FORMAT ; /** Users: enter appropriate LIB statement**/

```
value ONHIS2010
  . = "Not asked or Missing"
  1 = "1 Management"
  2 = "2 Business & Financial Operations"
  3 = "3 Computer & Mathematical"
  4 = "4 Architecture & Engineering"
  5 = "5 Life, Phys., & Social Science"
  6 = "6 Community & Social Services"
  7 = "7 Legal"
  8 = "8 Education, Training, & Library"
  9 = "9 Arts, Design, Entert., Sports & Media"
  10 = "10 Healthcare & Technical"
  11 = "11 Healthcare Support"
  12 = "12 Protective Service"
  13 = "13 Food Prep. & Serving"
  14 = "14 Building & Grounds Cleaning & Maint."
  15 = "15 Personal Care & Service"
  16 = "16 Sales & Related"
  17 = "17 Office & Admin. Support"
  18 = "18 Farming, Fishing, & Forestry"
  19 = "19 Construction & Extraction"
  20 = "20 Installation, Maint., & Repair"
  21 = "21 Production"
  22 = "22 Transportation & Material Moving"
  23 = "23 Military Active Duty"
  98 = "98 Unpaid Worker / Disabled / Retired"
  99 = "99 Don't Know or Insufficient Info"
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VALUE ONHISDET2010

.= 'Not asked or Missing'

- 01='01 Chief executives; general and operations managers; legislators'
- 02='02 Advertising, marketing, promotions, public relations, and sales managers'
- 03='03 Operations specialties managers'
- 04='04 Other management occupations'
- 05='05 Business operations specialists'
- 06='06 Financial specialists'
- 07='07 Computer specialists'
- 08='08 Mathematical science occupations'
- 09='09 Architects, surveyors, and cartographers'
- 10='10 Engineers'
- 11='11 Drafters, engineering, and mapping technicians'
- 12='12 Life scientists'
- 13='13 Physical scientists'
- 14='14 Social scientists and related workers'
- 15='15 Life, physical, and social science technicians'
- 16='16 Counselors, social workers, and other community and social service specialists'
- 17='17 Religious workers'
- 18='18 Lawyers, judges, and related workers'
- 19='19 Legal support workers'
- 20='20 Postsecondary teachers'
- 21='21 Primary, secondary, and special education school teachers'
- 22='22 Other teachers and instructors'
- 23='23 Librarians, curators, and archivists'
- 24='24 Other education, training, and library occupations'
- 25='25 Art and design workers'
- 26='26 Entertainers and performers, sports and related workers'
- 27='27 Media and communication workers'
- 28='28 Media and communication equipment workers'
- 29='29 Health diagnosing and treating practitioners'
- 30='30 Health technologists and technicians'
- 31='31 Other healthcare practitioners and technical occupations'
- 32='32 Nursing, psychiatric, and home health aides'
- 33='33 Occupational and physical therapist assistants and aides'
- 34='34 Other healthcare support occupations'
- 35='35 First-line supervisors/managers, protective service workers'
- 36='36 Fire fighting and prevention workers'
- 37='37 Law enforcement workers'
- 38='38 Other protective service workers'
- 39='39 Supervisors, food preparation, and serving workers'
- 40='40 Cooks and food preparation workers'
- 41='41 Food and beverage serving workers'
- 42='42 Other food preparation and serving related workers'
- 43='43 Supervisors, building and grounds cleaning and maintenance workers'
- 44='44 Building cleaning and pest control workers'
- 45='45 Grounds maintenance workers'
- 46='46 Supervisors, personal care and service workers'
- 47='47 Animal care and service workers'

48='48 Entertainment attendants and related workers'
49='49 Funeral service workers'
50='50 Personal appearance workers'
51='51 Transportation, tourism, and lodging attendants'
52='52 Other personal care and service workers'
53='53 Supervisors, sales workers'
54='54 Retail sales workers'
55='55 Sales representatives, services'
56='56 Sales representatives, wholesale and manufacturing'
57='57 Other sales and related workers'
58='58 Supervisors, office and administrative support workers'
59='59 Communications equipment operators'
60='60 Financial clerks'
61='61 Information and record clerks'
62='62 Material recording, scheduling, dispatching, and distributing workers'
63='63 Secretaries and administrative assistants'
64='64 Other office and administrative support workers'
65='65 Supervisors, farming, fishing, and forestry workers'
66='66 Agricultural workers'
67='67 Fishing and hunting workers'
68='68 Forest, conservation, and logging workers'
69='69 Supervisors, construction and extraction workers'
70='70 Construction trades workers'
71='71 Helpers, constructions trades'
72='72 Other construction and related workers'
73='73 Extraction workers'
74='74 Supervisors of installation, maintenance, and repair workers'
75='75 Electrical and electronic equipment mechanics, installers, and repairers'
76='76 Vehicle and mobile equipment mechanics, installers, and repairers'
77='77 Other installation, maintenance, and repair occupations'
78='78 Supervisors, production workers'
79='79 Assemblers and fabricators'
80='80 Food processing workers'
81='81 Metal workers and plastic workers'
82='82 Printing workers'
83='83 Textile, apparel, and furnishings workers'
84='84 Woodworkers'
85='85 Plant and system operators'
86='86 Other production occupations'
87='87 Supervisors, transportation and material moving workers'
88='88 Air transportation workers'
89='89 Motor vehicle operators'
90='90 Rail transportation workers'
91='91 Water transportation workers'
92='92 Other transportation workers'
93='93 Material moving workers'
94='94 Military active duty'
98='98 Unpaid worker / Student / Disabled / Retired'
99 = "99 Don't Know or Insufficient Info"
;

value INHIS2010

- . = "Not asked or Missing"
- 1 = "1 Ag, Forestry, Fish/Hunt"
- 2 = "2 Mining, Oil & Gas"
- 3 = "3 Utilities"
- 4 = "4 Construction"
- 5 = "5 Manufacturing"
- 6 = "6 Wholesale Trade"
- 7 = "7 Retail Trade"
- 8 = "8 Transport & Warehouse"
- 9 = "9 Information"
- 10 = "10 Finance & Insurance"
- 11 = "11 Real Est., Rent, Lease"
- 12 = "12 Prof., Scientific, & Tech Serv."
- 13 = "13 Mgmt of Companies & Enterp."
- 14 = "14 Admin., Support, Waste Mgmt, & Remediation"
- 15 = "15 Education"
- 16 = "16 Health Care & Social Assist."
- 17 = "17 Arts, Entertainment, & Rec."
- 18 = "18 Accommodation & Food Services"
- 19 = "19 Other Services (except Public Admin.)"
- 20 = "20 Public Admin."
- 21 = "21 Armed Forces"
- 98 = "98 Unpaid Worker / Disabled / Retired"
- 99 = "99 Don't Know or Insufficient Info"

;

value INHISDET2010

- .'Not asked or Missing'
- 01='01 Crop production'
- 02='02 Animal production'
- 03='03 Forestry and logging'
- 04='04 Fishing, hunting, and trapping'
- 05='05 Support activities for agriculture and forestry'
- 06='06 Oil and gas extraction'
- 07='07 Mining (except oil and gas)'
- 08='08 Support activities for mining'
- 09='09 Utilities industries'
- 10='10 Construction industries'
- 11='11 Food manufacturing'
- 12='12 Beverage and tobacco product manufacturing'
- 13='13 Textile mills'
- 14='14 Textile product mills'
- 15='15 Apparel manufacturing'
- 16='16 Leather and allied product manufacturing'
- 17='17 Wood product manufacturing'
- 18='18 Paper manufacturing'
- 19='19 Printing and related support activities'
- 20='20 Petroleum and coal products manufacturing'
- 21='21 Chemical manufacturing'
- 22='22 Plastics and rubber products manufacturing'
- 23='23 Nonmetallic mineral product manufacturing'
- 24='24 Primary metal manufacturing'
- 25='25 Fabricated metal product manufacturing'
- 26='26 Machinery manufacturing'
- 27='27 Computer and electronic product manufacturing'
- 28='28 Electrical equipment, appliance, and component manufacturing'

29='29 Transportation equipment manufacturing'
 30='30 Furniture and related product manufacturing'
 31='31 Miscellaneous manufacturing'
 32='32 Merchant wholesalers, durable goods'
 33='33 Merchant wholesalers, nondurable goods'
 34='34 Non-specified wholesale trade'
 35='35 Motor vehicle and parts dealers'
 36='36 Furniture and home furnishings stores'
 37='37 Electronics and appliance stores'
 38='38 Building material and garden equipment and supplies dealers'
 39='39 Food and beverage stores'
 40='40 Health and personal care stores'
 41='41 Gasoline stations'
 42='42 Clothing and clothing accessories stores'
 43='43 Sporting goods, camera, hobby, book and music stores'
 44='44 General merchandise stores'
 45='45 Miscellaneous store retailers'
 46='46 Nonstore retailers and non-specified retail trade'
 47='47 Transportation (including support activities for transportation)'
 48='48 Postal service, couriers, and messengers'
 49='49 Warehousing and storage'
 50='50 Publishing industries (except internet)'
 51='51 Motion picture and sound recording industries'
 52='52 Broadcasting and telecommunications'
 53='53 Information services and data processing'
 54='54 Monetary authorities – central bank'
 55='55 Credit intermediation and related activities'
 56='56 Securities, commodity contracts, and other financial investments and related activities'
 57='57 Insurance carriers and related activities'
 58='58 Real estate'
 59='59 Rental and leasing services'
 60='60 Lessors of nonfinancial intangible assets (except copyrighted works)'
 61='61 Professional, scientific, and technical services industries'
 62='62 Management of companies and enterprises industries'
 63='63 Administrative and support and waste management and remediation services industries'
 64='64 Education services industries'
 65='65 Ambulatory health care services'
 66='66 Hospitals'
 67='67 Nursing and residential care facilities'
 68='68 Social assistance'
 69='69 Performing arts, spectator sports, and related industries'
 70='70 Museums, historical sites, and similar institutions'
 71='71 Amusement, gambling, and recreation industries'
 72='72 Accommodation'
 73='73 Food services and drinking places'
 74='74 Repair and maintenance'
 75='75 Personal services'
 76='76 Religious, grantmaking, civic, labor, professional, and similar organizations'
 77='77 Services, private households'
 78='78 Public administration industries'
 79='79 Armed forces'
 98='98 Unpaid / Student / Disabled / Retired'
 99 = "99 Don't Know or Insufficient Info"
 ;
 run;

2010 Census Occupation to 2013 NHIS detail recodes for occupation onhisdet2010=NHIS detail occupation recode

*first occurrence of new variable is lower case so that output variable is lower case;

if occboc2010 in (0010, 0020, 0030) then onhisdet2010=01 ;

/*Chief executives; general and operations managers; legislators*/

else if occboc2010 in (0040, 0050, 0060) then onhisdet2010=02;

*Advertising, marketing, promotions, public relations, and sales managers;

else if occboc2010 in (0100, 0110, 0120, 0135, 0136, 0137, 0140, 0150, 0160) then onhisdet2010=03;

*Operations specialties managers;

else if occboc2010 in (0205, 0220, 0230, 0300, 0310, 0325, 0330, 0340, 0350,0360, 0400, 0410, 0420, 0425, 0430) then onhisdet2010=04;

*Other management occupations;

else if occboc2010 in (0500, 0510, 0520, 0530, 0540, 0565, 0600, 0630, 0640,0650, 0700, 0710, 0725, 0726, 0735, 0740) then onhisdet2010=05;

*Business operations specialists;

else if occboc2010 in (0800, 0810, 0820, 0830, 0840, 0850, 0860, 0900, 0910,0930, 0940, 0950) then onhisdet2010=06;

*Financial specialists;

else if occboc2010 in (1005, 1006, 1007, 1010, 1020, 1030, 1050, 1060, 1105,1106, 1107) then onhisdet2010=07;

*Computer specialists;

else if occboc2010 in (1200, 1210, 1220, 1230, 1240) then onhisdet2010=08;

*Mathematical science occupations;

else if occboc2010 in (1300, 1310) then onhisdet2010=09;

*Architects, surveyors, and cartographers;

else if occboc2010 in (1320, 1330, 1340, 1350, 1360, 1400, 1410, 1420, 1430,1440, 1450, 1460, 1500, 1510, 1520, 1530) then onhisdet2010=10;

*Engineers;

else if occboc2010 in (1540, 1550, 1560) then onhisdet2010=11;

*Drafters, engineering, and mapping technicians;

else if occboc2010 in (1600, 1610, 1640, 1650, 1660) then onhisdet2010=12;

*Life scientists;

else if occboc2010 in (1700, 1710, 1720, 1740, 1760) then onhisdet2010=13;

*Physical scientists;

else if occboc2010 in (1800, 1815, 1820, 1830, 1840, 1860) then onhisdet2010=14;

*Social scientists and related workers;

else if occboc2010 in (1900, 1910, 1920, 1930, 1940, 1950, 1965) then onhisdet2010=15;

*Life, physical, and social science technicians;

else if occboc2010 in (2000, 2010, 2015, 2016, 2025) then onhisdet2010=16;

*Counselors, social workers, and other community and social service specialists;

else if occboc2010 in (2040, 2050, 2060) then onhisdet2010=17;

*Religious workers;

else if occboc2010 in (2100, 2105, 2110) then onhisdet2010=18;

*Lawyers, judges, and related workers;

else if occboc2010 in (2145, 2160) then onhisdet2010=19;

*Legal support workers;

else if occboc2010 in (2200) then onhisdet2010=20;
 *Postsecondary teachers;

else if occboc2010 in (2300, 2310, 2320, 2330) then onhisdet2010=21;
 *Primary, secondary, and special education school teachers;

else if occboc2010 in (2340) then onhisdet2010=22;
 *Other teachers and instructors;

else if occboc2010 in (2400, 2430, 2440) then onhisdet2010=23;
 *Librarians, curators, and archivists;

else if occboc2010 in (2540, 2550) then onhisdet2010=24;
 *Other education, training, and library occupations;

else if occboc2010 in (2600, 2630) then onhisdet2010=25;
 *Art and design workers;

else if occboc2010 in (2700, 2710, 2720, 2740, 2750, 2760) then onhisdet2010=26;
 *Entertainers and performers, sports and related workers;

else if occboc2010 in (2800, 2810, 2825, 2830, 2840, 2850, 2860) then onhisdet2010=27;
 *Media and communication workers;

else if occboc2010 in (2900, 2910, 2920, 2960) then onhisdet2010=28;
 *Media and communication equipment workers;

else if occboc2010 in (3000, 3010, 3030, 3040, 3050, 3060, 3110, 3120, 3140, 3150, 3160, 3200, 3210, 3220, 3230, 3235, 3245, 3250, 3255, 3256, 3257, 3258, 3260) then onhisdet2010=29;
 *Health diagnosing and treating practitioners;

else if occboc2010 in (3300, 3310, 3320, 3400, 3420, 3500, 3510, 3520, 3535) then onhisdet2010=30;
 *Health technologists and technicians;

else if occboc2010 in (3540) then onhisdet2010=31;
 *Other healthcare practitioners and technical occupations;

else if occboc2010 in (3600) then onhisdet2010=32;
 *Nursing, psychiatric, and home health aides;

else if occboc2010 in (3610, 3620) then onhisdet2010=33;
 *Occupational and physical therapist assistants and aides;

else if occboc2010 in (3630, 3640, 3645, 3646, 3647, 3648, 3649, 3655) then onhisdet2010=34;
 *Other healthcare support occupations;

else if occboc2010 in (3700, 3710, 3720, 3730) then onhisdet2010=35;
 *First-line supervisors/managers, protective service workers;

else if occboc2010 in (3740, 3750) then onhisdet2010=36;
 *Fire fighting and prevention workers;

else if occboc2010 in (3800, 3820, 3830, 3840, 3850, 3860) then onhisdet2010=37;
 *Law enforcement workers;

else if occboc2010 in (3900, 3910, 3930, 3940, 3945, 3955) then onhisdet2010=38;
 *Other protective service workers;

else if occboc2010 in (4000, 4010) then onhisdet2010=39;
 *Supervisors, food preparation, and serving workers;

else if occboc2010 in (4020, 4030) then onhisdet2010=40;
 *Cooks and food preparation workers;

else if occboc2010 in (4040, 4050, 4060, 4110, 4120) then onhisdet2010=41;
 *Food and beverage serving working;

else if occboc2010 in (4130, 4140, 4150, 4160) then onhisdet2010=42;
 *Other food preparation and serving related workers;

else if occboc2010 in (4200, 4210) then onhisdet2010=43;
 *Supervisors, building and grounds cleaning and maintenance workers;

else if occboc2010 in (4220, 4230, 4240) then onhisdet2010=44;
 *Building cleaning and pest control workers;

else if occboc2010 in (4250) then onhisdet2010=45;
 *Grounds maintenance workers;

else if occboc2010 in (4300, 4320) then onhisdet2010=46;
 *Supervisors, personal care and service workers;

else if occboc2010 in (4340, 4350) then onhisdet2010=47;
 *Animal care and service workers;

else if occboc2010 in (4400, 4410, 4420, 4430) then onhisdet2010=48;
 *Entertainment attendants and related workers;

else if occboc2010 in (4460, 4465) then onhisdet2010=49;
 *Funeral service workers;

else if occboc2010 in (4500, 4510, 4520) then onhisdet2010=50;
 *Personal appearance workers;

else if occboc2010 in (4530, 4540) then onhisdet2010=51;
 *Transportation, tourism, and lodging attendants;

else if occboc2010 in (4600, 4610, 4620, 4640, 4650) then onhisdet2010=52 ;
 *Other personal care and service workers;

else if occboc2010 in (4700, 4710) then onhisdet2010=53 ;
 *Supervisors, sales workers;

else if occboc2010 in (4720, 4740, 4750, 4760) then onhisdet2010=54;
 *Retail sales workers;

else if occboc2010 in (4800, 4810, 4820, 4830, 4840) then onhisdet2010=55;
 *Sales representatives, services;

else if occboc2010 in (4850) then onhisdet2010=56;
 *Sales representatives, wholesale and manufacturing;

else if occboc2010 in (4900, 4920, 4930, 4940, 4950, 4965) then onhisdet2010=57;
 *Other sales and related workers;

else if occboc2010 in (5000) then onhisdet2010=58;
 *Supervisors, office and administrative support workers;

else if occboc2010 in (5010, 5020, 5030) then onhisdet2010=59;
 *Communications equipment operators;

else if occboc2010 in (5100, 5110, 5120, 5130, 5140, 5150, 5160, 5165) then onhisdet2010=60;
 *Financial clerks;

else if occboc2010 in (5200, 5210, 5220, 5230, 5240, 5250, 5260, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5400, 5410, 5420) then onhisdet2010=61;
 *Information and record clerks;

else if occboc2010 in (5500, 5510, 5520, 5530, 5540, 5550, 5560, 5600, 5610, 5620, 5630) then onhisdet2010=62;
 *Material recording, scheduling, dispatching, and distributing workers;

else if occboc2010 in (5700) then onhisdet2010=63;
 *Secretaries and administrative assistants;

else if occboc2010 in (5800, 5810, 5820, 5830, 5840, 5850, 5860, 5900, 5910, 5920, 5940) then onhisdet2010=64;
 *Other office and administrative support workers;

else if occboc2010 in (6005) then onhisdet2010=65;
 *Supervisors, farming, fishing, and forestry workers;

else if occboc2010 in (6010, 6020, 6040, 6050) then onhisdet2010=66;
 *Agricultural workers;

else if occboc2010 in (6100, 6110) then onhisdet2010=67;
 *Fishing and hunting workers;

else if occboc2010 in (6120, 6130) then onhisdet2010=68;
 *Forest, conservation, and logging workers;

else if occboc2010 in (6200) then onhisdet2010=69;
 *Supervisors, construction and extraction workers;

else if occboc2010 in (6210, 6220, 6230, 6240, 6250, 6260, 6300, 6310, 6320, 6330, 6355, 6360, 6400, 6420, 6430, 6440, 6460, 6500, 6515, 6520, 6530, 6540) then onhisdet2010=70;
 *Construction trades workers;

else if occboc2010 in (6600) then onhisdet2010=71;
 *Helpers, construction trades;

else if occboc2010 in (6660, 6700, 6710, 6720, 6730, 6740, 6750, 6765) then onhisdet2010=72;
 *Other construction and related workers;

else if occboc2010 in (6800, 6820, 6830, 6840, 6910, 6920, 6930, 6940) then onhisdet2010=73;
 *Extraction workers;

else if occboc2010 in (7000) then onhisdet2010=74;
 *Supervisors of installation, maintenance, and repair workers;

else if occboc2010 in (7010, 7020, 7030, 7040, 7050, 7100, 7110, 7120, 7130) then onhisdet2010=75;
 *Electrical and electronic equipment mechanics, installers, and repairers;

else if occboc2010 in (7140, 7150, 7160, 7200, 7210, 7220, 7240, 7260) then onhisdet2010=76;
 *Vehicle and mobile equipment mechanics, installers, and repairers;

else if occboc2010 in (7300, 7315, 7320, 7330, 7340, 7350, 7360, 7410, 7420, 7430, 7440, 7510, 7520, 7540, 7550, 7560, 7600, 7610, 7630) then onhisdet2010=77;
 *Other installation, maintenance, and repair occupations;

else if occboc2010 in (7700) then onhisdet2010=78;
 *Supervisors, production workers;

else if occboc2010 in (7710, 7720, 7730, 7740, 7750) then onhisdet2010=79;
 *Assemblers and fabricators;

else if occboc2010 in (7800, 7810, 7830, 7840, 7850, 7855) then onhisdet2010=80;
 *Food processing workers;

else if occboc2010 in (7900, 7920, 7930, 7940, 7950, 7960, 8000, 8010, 8020, 8030, 8040, 8060, 8100, 8120, 8130, 8140, 8150, 8160, 8200, 8210, 8220) then onhisdet2010=81;
 *Metal workers and plastic workers;

else if occboc2010 in (8250, 8255, 8256) then onhisdet2010=82;
 *Printing workers;

else if occboc2010 in (8300, 8310, 8320, 8330, 8340, 8350, 8360, 8400, 8410, 8420, 8430, 8440, 8450, 8460) then onhisdet2010=83;
 *Textile, apparel, and furnishings workers;

else if occboc2010 in (8500, 8510, 8520, 8530, 8540, 8550) then onhisdet2010=84;
 *Woodworkers;

else if occboc2010 in (8600, 8610, 8620, 8630) then onhisdet2010=85;
 *Plant and system operators;

else if occboc2010 in (8640, 8650, 8710, 8720, 8730, 8740, 8750, 8760, 8800, 8810, 8830, 8840, 8850, 8860, 8900, 8910, 8920, 8930, 8940, 8950, 8965) then onhisdet2010=86;

*Other production occupations;

else if occboc2010 in (9000) then onhisdet2010=87;

*Supervisors, transportation and material moving workers;

else if occboc2010 in (9030, 9040, 9050) then onhisdet2010=88;

*Air transportation workers;

else if occboc2010 in (9110, 9120, 9130, 9140, 9150) then onhisdet2010=89;

*Motor vehicle operators;

else if occboc2010 in (9200, 9230, 9240, 9260) then onhisdet2010=90;

*Rail transportation workers;

else if occboc2010 in (9300, 9310, 9330) then onhisdet2010=91;

*Water transportation workers;

else if occboc2010 in (9340, 9350, 9360, 9410, 9415, 9420) then onhisdet2010=92;

*Other transportation workers;

else if occboc2010 in (9500, 9510, 9520, 9560, 9600, 9610, 9620, 9630, 9640, 9650, 9720, 9730, 9740, 9750) then onhisdet2010=93;

*Material moving workers;

**** NOTE ABOUT MILITARY SPECIFIC OCCUPATIONS BELOW

NIOSH REVISED NHIS CATEGORY 94 TO INCLUDE NIOSH-CREATED NONCENSUS CODES AS FOLLOWS

**** revisions to 9830=Armed Forces, Military w/occupation blank, 9840= Armed Forces, Military commissioned Officers and warrant officers, and NIOSH created code 9850= Armed Forces, Military Non-commissioned Officer and other enlisted personnel.

**** BOC 9800, 9810, or 9820 are not used by NIOSH *****;

else if occboc2010 in (9830,9840, 9850) then onhisdet2010 =94

/*Military active duty*/;

*****REVISED NHIS CATEGORY 98 TO INCLUDE NIOSH non-Census CODES**/;

ELSE IF occboc2010 IN (9010, 9020, 9070, 9060, 9100) THEN onhisdet2010= 98

/*Unpaid worker or student or retired*/;

/*NIOSH codes 9010=homemaker, 9020=volunteer, 9070=student, 9060=retired, and 9100=Disabled, did not work, child or infant, patient, or inmate*/

*****NHIS CATEGORY 99 ALTERED BY NIOSH TO INCLUDE NHIS RECODES 97-99 "REFUSED, NOT ASCERTAINED, AND DON'T KNOW"*****;

else if occboc2010 in (9900) then onhisdet2010 =99

/*9900=Dont know, unknown, or insufficient information*/;

else if occboc2010 ne " " then onhisdet2010=333;

LABEL onhisdet2010 = "Occupation NHIS detailed 2-digit recode of 2010 Census codes";
 FORMAT onhisdet2010 ONHISDET2010.;

2010 Census Occupation to 2013 NHIS simple recodes for occupation ONHIS2010=NHIS detail occupation recode

if occboc2010 in (0010, 0020, 0030,0040, 0050, 0060, 0100, 0110, 0120, 0135, 0136, 0137, 0140, 0150, 0160,0205, 0220, 0230, 0300, 0310, 0325, 0330, 0340, 0350,0360, 0400, 0410, 0420, 0425, 0430) then onhis2010=01;

*Management Occupations;

else if occboc2010 in (0500, 0510, 0520, 0530, 0540, 0565, 0600, 0630, 0640, 0650, 0700, 0710, 0725, 0726, 0735, 0740,0800, 0810, 0820, 0830, 0840, 0850, 0860, 0900, 0910,0930, 940, 0950) then onhis2010=02;

*Business and Financial Operations Occupations;

else if occboc2010 in (1005, 1006, 1007, 1010, 1020, 1030, 1050, 1060, 1105, 1106, 1107,1200, 1210, 1220, 1230, 1240) then onhis2010=3;

*Computer and Mathematical Occupations;

else if occboc2010 in (1300, 1310,1320, 1330, 1340, 1350, 1360, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1500, 1510, 1520, 1530, 1540, 1550, 1560) then onhis2010=4;

*Architecture and Engineering Occupations;

else if occboc2010 in (1600, 1610, 1640, 1650, 1660,1700, 1710, 1720, 1740, 1760, 1800, 1815, 1820, 1830, 1840, 1860, 1900, 1910, 1920, 1930, 1940, 1950, 1965) then onhis2010=5;

*Life, physical, and social science occupations;

else if occboc2010 in (2000, 2010, 2015, 2016, 2025, 2040, 2050, 2060) then onhis2010=6;

*Community and Social Services Occupations;

else if occboc2010 in (2100, 2105, 2110, 2145, 2160) then onhis2010=7;

*Legal Occupations;

else if occboc2010 in (2200, 2300, 2310, 2320, 2330, 2340, 2400, 2430, 2440, 2540, 2550) then onhis2010=8;

*Education, training, and library occupations;

else if occboc2010 in (2600, 2630, 2700, 2710, 2720, 2740, 2750, 2760, 2800, 2810, 2825, 2830, 2840, 2850, 2860, 2900, 2910, 2920, 2960) then onhis2010=9;

*Arts, Design, Entertainment, Sports, and Media Occupations;

else if occboc2010 in (3000, 3010, 3030, 3040, 3050, 3060, 3110, 3120, 3140, 3150, 3160, 3200, 3210, 3220, 3230, 3235, 3245, 3250, 3255, 3256, 3257, 3258, 3260, 3300, 3310, 3320, 3400, 3420, 3500, 3510, 3520, 3535, 3540) then onhis2010=10;

*Healthcare practitioners and technical occupations;

else if occboc2010 in(3600, 3610, 3620, 3630, 3640, 3645, 3646, 3647, 3648, 3649, 3655) then onhis2010=11;

*Healthcare support occupations;

else if occboc2010 in (3700, 3710, 3720, 3730, 3740, 3750, 3800, 3820, 3830, 3840, 3850, 3860, 3900, 3910, 3930, 3940, 3945, 3955) then onhis2010=12;

*Protective service occupations;

else if occboc2010 in (4000, 4010, 4020, 4030, 4040, 4050, 4060, 4110, 4120, 4130, 4140, 4150, 4160) then onhis2010=13;

*Food preparation and serving related occupations;

else if occboc2010 in (4200, 4210, 4220, 4230, 4240, 4250) then onhis2010=14;

*Building and Grounds cleaning and maintenance occupations;

else if occboc2010 in (4300, 4320 , 4340, 4350, 4400, 4410, 4420, 4430 , 4460, 4465 , 4500, 4510, 4520 , 4530, 4540 , 4600, 4610, 4620, 4640, 4650) then onhis2010=15;

*Personal care and service occupations;

else if occboc2010 in (4700, 4710 , 4720, 4740, 4750, 4760 , 4800, 4810, 4820, 4830, 4840 , 4850, 4900, 4920, 4930, 4940, 4950, 4965) then onhis2010=16;

*Sales and related occupations;

else if occboc2010 in (5000, 5010, 5020, 5030, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5165, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5400, 5410, 5420, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5600, 5610, 5620, 5630, 5700, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5900, 5910, 5920, 5940) then onhis2010=17;

*Office and administrative support occupations;

else if occboc2010 in (6005, 6010, 6020, 6040, 6050, 6100, 6110, 6120, 6130) then onhis2010=18;

*Farming, fishing, and forestry occupations;

else if occboc2010 in (6200, 6210, 6220, 6230, 6240, 6250, 6260, 6300, 6310, 6320, 6330, 6355, 6360, 6400, 6420, 6430, 6440, 6460, 6500, 6515, 6520, 6530, 6540, 6600, 6660, 6700, 6710, 6720, 6730, 6740, 6750, 6765, 6800, 6820, 6830, 6840, 6910, 6920, 6930, 6940) then onhis2010=19;

*Construction and Extraction occupations;

else if occboc2010 in (7000, 7010, 7020, 7030, 7040, 7050, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7200, 7210, 7220, 7240, 7260, 7300, 7315, 7320, 7330, 7340, 7350, 7360, 7410, 7420, 7430, 7440, 7510, 7520, 7540, 7550, 7560, 7600, 7610, 7630) then onhis2010=20;

*Installation, maintenance, and repair occupations;

else if occboc2010 in (7700, 7710, 7720, 7730, 7740, 7750, 7800, 7810, 7830, 7840, 7850, 7855, 7900, 7920, 7930, 7940, 7950, 7960, 8000, 8010, 8020, 8030, 8040, 8060, 8100, 8120, 8130, 8140, 8150, 8160, 8200, 8210, 8220, 8250, 8255, 8256, 8300, 8310, 8320, 8330, 8340, 8350, 8360, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8500, 8510, 8520, 8530, 8540, 8550, 8600, 8610, 8620, 8630, 8640, 8650, 8710, 8720, 8730, 8740, 8750, 8760, 8800, 8810, 8830, 8840, 8850, 8860, 8900, 8910, 8920, 8930, 8940, 8950, 8965) then onhis2010=21;

*Production occupations;

else if occboc2010 in (9000, 9030, 9040, 9050, 9110, 9120, 9130, 9140, 9150, 9200, 9230, 9240, 9260, 9300, 9310, 9330, 9340, 9350, 9360, 9410, 9415, 9420, 9500, 9510, 9520, 9560, 9600, 9610, 9620, 9630, 9640, 9650, 9720, 9730, 9740, 9750) then onhis2010=22;

*Transportation and Material moving occupations;

****NOTE ABOUT MILITARY SPECIFIC OCCUPATIONS BELOW

REVISED NHIS CATEGORY 23 TO INCLUDE NIOSH-CREATED NONCENSUS CODES AS FOLLOWS

****revisions to 9830=Armed Forces, Military w/occupation blank, 9840= Armed Forces, Military commissioned Officers and warrant officers, and NIOSH created code 9850= Armed Forces, Military Non-commissioned Officer and other enlisted personnel.

**** BOC 9800, 9810, or 9820 were not used *****;

else if occboc2010 in (9830, 9840, 9850) then onhis2010= 23

/*Military Active Duty*/;

*****NEW CATEGORY 98 ADDED BY NIOSH FOR NON-CENSUS CODES *****;

ELSE IF occboc2010 IN (9010,9020,9070,9060,9100) THEN onhis2010= 98

/*Unable to Work, Unpaid Worker, or Retired*/;

/*NIOSH codes 9010=homemaker, 9020=volunteer, 9070=student, 9060=retired, and 9100=Disabled, did not work, child or infant, patient, or inmate*/;

*****CATEGORY 99 ALTERED BY NIOSH TO INCLUDE NHIS RECODES 97-99 "REFUSED, NOT ASCERTAINED, AND DON'T KNOW"*****;

else if occboc2010 in (9900) then onhis2010= 99

/*Don't Know, Unknown, or Insufficient Information*/;

else if occboc2010 ne " " then onhis2010=333;

LABEL onhis2010 = "Occupation NHIS simple 2-digit recode of 2010 Census codes";

FORMAT onhis2010 ONHIS2010.;

*2010 Census Industry to 2013 NHIS DETAILED recodes for INDUSTRY INHIS2010
INHISDET2010=NHIS detailed industry recode*

*****,

*first occurrence of new variable is lower case so that output variable is lower case;

/*Agriculture Industries*/

if INDBOC2010 in (0170) then inhisdet2010 =01

/*Crop production*/;

else if INDBOC2010 in (0180) then INHISDET2010 =02

/*Animal production*/;

else if INDBOC2010 in (0190, 0270) then INHISDET2010 =03

/*Forestry and logging*/;

else if INDBOC2010 in (0280) then INHISDET2010 =04

/*Fishing, hunting, and trapping*/;

else if INDBOC2010 in (0290) then INHISDET2010 =05

/*Support activities for agriculture and forestry*/;

/*Mining Industries*/

else if INDBOC2010 in (0370) then INHISDET2010 =06

/*Oil and gas extraction*/;

else if INDBOC2010 in (0380, 0390, 0470, 0480) then INHISDET2010 =07

/*Mining (except oil and gas)*/;

else if INDBOC2010 in (0490) then INHISDET2010 =08

/*Support activities for mining*/;

else if INDBOC2010 in (0570, 0580, 0590, 0670, 0680, 0690) then INHISDET2010 =09

/*Utilities Industries*/;

else if INDBOC2010 in (0770) then INHISDET2010 =10

/*Construction Industries*/;

/*Manufacturing Industries*/

else if INDBOC2010 in (1070, 1080, 1090, 1170, 1180, 1190, 1270, 1280, 1290) then INHISDET2010 =11

/*Food manufacturing*/;

else if INDBOC2010 in (1370, 1390) then INHISDET2010 =12

/*Beverage and tobacco product manufacturing*/;

else if INDBOC2010 in (1470, 1480, 1490) then INHISDET2010 =13

/*Textile mills*/;

else if INDBOC2010 in (1570, 1590, 1670) then INHISDET2010 =14

/*Textile product mills*/;

else if INDBOC2010 in (1680, 1690, 1770) then INHISDET2010 =15

/*Apparel manufacturing*/;

else if INDBOC2010 in (1790) then INHISDET2010 =16

/*Leather and allied product manufacturing*/;

else if INDBOC2010 in (3770, 3780, 3790, 3870) then INHISDET2010 =17

/*Wood product manufacturing*/;

else if INDBOC2010 in (1870, 1880, 1890) then INHISDET2010 =18

/*Paper manufacturing*/;

else if INDBOC2010 in (1990) then INHISDET2010 =19

*/*Printing and related support activities*/;*
 else if INDBOC2010 in (2070, 2090) then INHISDET2010 =20

*/*Petroleum and coal products manufacturing*/;*
 else if INDBOC2010 in (2170, 2180, 2190, 2270, 2280, 2290) then INHISDET2010 =21

*/*Chemical manufacturing*/;*
 else if INDBOC2010 in (2370, 2380, 2390) then INHISDET2010 =22

*/*Plastics and rubber products manufacturing*/;*
 else if INDBOC2010 in (2470, 2480, 2490, 2570, 2590) then INHISDET2010 =23

*/*Nonmetallic mineral product manufacturing*/;*
 else if INDBOC2010 in (2670, 2680, 2690, 2770, 2780, 2990) then INHISDET2010 =24

*/*Primary metal manufacturing*/;*
 else if INDBOC2010 in (2790, 2870, 2880, 2890, 2970, 2980) then INHISDET2010 =25

*/*Fabricated metal product manufacturing*/;*
 else if INDBOC2010 in (3070, 3080, 3090, 3170, 3180, 3190, 3290) then INHISDET2010 =26

*/*Machinery manufacturing*/;*
 else if INDBOC2010 in (3360, 3370, 3380, 3390) then INHISDET2010 =27

*/*Computer and electronic product manufacturing*/;*
 else if INDBOC2010 in (3470, 3490) then INHISDET2010 =28

*/*Electrical equipment, appliance, and component manufacturing*/;*
 else if INDBOC2010 in (3570, 3580, 3590, 3670, 3680, 3690) then INHISDET2010 =29

*/*Transportation equipment manufacturing*/;*
 else if INDBOC2010 in (3890) then INHISDET2010 =30

*/*Furniture and related product manufacturing*/;*
 else if INDBOC2010 in (3960, 3970, 3980, 3990) then INHISDET2010 =31

*/*Miscellaneous manufacturing*/;*

*/*Wholesale Trade Industries*/*
 else if INDBOC2010 in (4070, 4080, 4090, 4170, 4180, 4190, 4260, 4270, 4280, 4290) then
 INHISDET2010 =32

*/*Merchant wholesalers, durable goods*/;*
 else if INDBOC2010 in (4370, 4380, 4390, 4470, 4480, 4490, 4560, 4570, 4580, 4585) then
 INHISDET2010 =33

*/*Merchant wholesalers, nondurable goods*/;*
 else if INDBOC2010 in (4590) then INHISDET2010 =34

*/*Non-specified wholesale trade*/;*

*/*Retail Trade Industries*/*
 else if INDBOC2010 in (4670, 4680, 4690) then INHISDET2010 =35

*/*Motor vehicle and parts dealers*/;*
 else if INDBOC2010 in (4770) then INHISDET2010 =36

*/*Furniture and home furnishing stores*/;*
 else if INDBOC2010 in (4780, 4790) then INHISDET2010 =37

*/*Electronics and appliance stores*/;*
 else if INDBOC2010 in (4870, 4880, 4890) then INHISDET2010 =38

*/*Building material and garden equipment and supplies dealers*/;*
 else if INDBOC2010 in (4970, 4980, 4990) then INHISDET2010 =39

*/*Food and beverage stores*/;*
 else if INDBOC2010 in (5070, 5080) then INHISDET2010 =40

*/*Health and personal care stores*/;*
 else if INDBOC2010 in (5090) then INHISDET2010 =41

*/*Gasoline stations*/;*
 else if INDBOC2010 in (5170, 5180, 5190) then INHISDET2010 =42

*/*Clothing and clothing accessories stores*/;*
 else if INDBOC2010 in (5270, 5280, 5290, 5370) then INHISDET2010 =43

*/*Sporting goods, camera, hobby, book and music stores*/;*
 else if INDBOC2010 in (5380, 5390) then INHISDET2010 =44

*/*General merchandise stores*/;*
 else if INDBOC2010 in (5470, 5480, 5490, 5570, 5580) then INHISDET2010 =45

*/*Miscellaneous store retailers*/;*
 else if INDBOC2010 in (5590, 5591, 5592, 5670, 5680, 5690, 5790) then INHISDET2010 =46

*/*Nonstore retailers and non-specified retail trade*/;*

*/*Transportation and Warehousing Industries*/*
 else if INDBOC2010 in (6070, 6080, 6090, 6170, 6180, 6190, 6270, 6280, 6290) then INHISDET2010 =47

*/*Transportation (including support activities for transportation)*/;*
 else if INDBOC2010 in (6370, 6380) then INHISDET2010 =48

*/*Postal service, couriers, and messengers*/;*
 else if INDBOC2010 in (6390) then INHISDET2010 =49

*/*Warehousing and storage*/;*

*/*Information Industries*/*
 else if INDBOC2010 in (6470, 6480, 6490) then INHISDET2010 =50

*/*Publishing industries (except internet)*/;*
 else if INDBOC2010 in (6570, 6590) then INHISDET2010 =51

*/*Motion picture and sound recording industries*/;*
 else if INDBOC2010 in (6670, 6680, 6690) then INHISDET2010 =52

*/*Broadcasting and telecommunications*/;*
 else if INDBOC2010 in (6770,6672,6695 , 6780) then INHISDET2010 =53

*/*Information services and data processing*/;*

*/*Finance and Insurance Industries*/*
 else if INDBOC2010 in (6870) then INHISDET2010 =54

*/*Monetary authorities – central bank*/;*
 else if INDBOC2010 in (6880, 6890) then INHISDET2010 =55

*/*Credit intermediation and related activities*/;*
 else if INDBOC2010 in (6970) then INHISDET2010 =56

*/*Securities, commodity contracts, and other financial investments and related activities*/;*
 else if INDBOC2010 in (6990) then INHISDET2010 =57

*/*Insurance carriers and related activities*/;*

*/*Real Estate and Rental and Leasing Industries*/*
 else if INDBOC2010 in (7070) then INHISDET2010 =58

*/*Real estate*/;*
 else if INDBOC2010 in (7080, 7170, 7180) then INHISDET2010 =59

*/*Rental and leasing services*/;*
 else if INDBOC2010 in (7190) then INHISDET2010 =60

*/*Lessors of nonfinancial intangible assets (except copyrighted works)*/;*
else if INDBOC2010 in (7270, 7280, 7290, 7370, 7380, 7390, 7460, 7470, 7480, 7490) then
INHISDET2010 =61

/ Professional, Scientific, and Technical Services Industries */;*
else if INDBOC2010 in (7570) then INHISDET2010 =62

*/*Management of Companies and Enterprises Industries*/;*
else if INDBOC2010 in (7580, 7590, 7670, 7680, 7690, 7770, 7780, 7790) then INHISDET2010 =63

*/*Administrative and Support and Waste Management and Remediation Services Industries*/;*
else if INDBOC2010 in (7860, 7870, 7880, 7890) then INHISDET2010 =64

*/*Education Services Industries*/;*

*/*Health Care and Social Assistance Industries*/*
else if INDBOC2010 in (7970, 7980, 7990, 8070, 8080,8090, 8170, 8180) then INHISDET2010 =65

*/*Ambulatory health care services*/;*
else if INDBOC2010 in (8190) then INHISDET2010 =66

*/*Hospitals*/;*
else if INDBOC2010 in (8270, 8290) then INHISDET2010 =67

*/*Nursing and residential care facilities*/;*
else if INDBOC2010 in (8370, 8380, 8390, 8470) then INHISDET2010 =68

*/*Social assistance*/;*

*/*Arts, Entertainment, and Recreation Industries*/*
else if INDBOC2010 in (8560) then INHISDET2010 =69

*/*Performing arts, spectator sports, and related industries*/;*
else if INDBOC2010 in (8570) then INHISDET2010 =70

*/*Museums, historical sites, and similar institutions*/;*
else if INDBOC2010 in (8580, 8590) then INHISDET2010 =71

*/*Amusement, gambling, and recreation industries*/;*

*/*Accommodation and Food Services Industries*/*
else if INDBOC2010 in (8660, 8670) then INHISDET2010 =72

*/*Accommodation*/;*
else if INDBOC2010 in (8680, 8690) then INHISDET2010 =73

*/*Food services and drinking places*/;*

*/*Other Services (Except Public Administration) Industries*/*
else if INDBOC2010 in (8770, 8780, 8790, 8870, 8880, 8890) then INHISDET2010 =74

*/*Repair and maintenance*/;* else if INDBOC2010 in (8970, 8980, 8990, 9070, 9080, 9090) then
INHISDET2010 =75

*/*Personal services (barber shops, beauty salons, nail salons, laundry, funeral homes and cemeteries)*/;*
else if INDBOC2010 in (9160, 9170, 9180, 9190) then INHISDET2010 =76

*/*Religious, grantmaking, civic, labor, professional, and similar organizations*/;*
else if INDBOC2010 in (9290) then INHISDET2010 =77

*/*private households*/;*


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/*Public Administration Industries*/
else if INDBOC2010 in (9370, 9380, 9390, 9470, 9480, 9490, 9570, 9590) then INHISDET2010 =78
/*Public Administration Industries*/;
else if INDBOC2010 in (9670, 9680, 9690, 9770, 9780, 9790, 9870) then INHISDET2010 =79
/*Armed Forces*/;

*****NHIS CATEGORY 98 ALTERED BY NIOSH FOR the NIOSH non-Census CODES**/;
ELSE IF INDBOC2010 IN (9890,9880) THEN INHISDET2010= 98
/*Unpaid Worker or Retired*/;
*Non-census codes for 9890=homemaker, volunteer, student, OR unable to work and 9880=retired;
*****NHIS CATEGORY 99 ALTERED BY NIOSH TO INCLUDE NHIS RECODES 97-99 "REFUSED, NOT
ASCERTAINED, AND DON'T KNOW"****;
else if INDBOC2010 in (9990) then INHISDET2010= 99
/*Don't Know, Unknown, or Insufficient Information*/; else if INDBOC2010 ne " " then
INHISDET2010=333;
LABEL INHISDET2010 = "Industry NHIS 2-digit detailed recodes of 2010 Census codes";
FORMAT INHISDET2010 INHISDET2010.;

*****
/*2010 Census Industry to 2013 NHIS survey document simple recodes for Industry, inhis2010=NHIS
simple industry recode*
*****
*first occurrence of new variable is lower case so that output variable is lower case;
if INDBOC2010 in (0170, 0180, 0190, 0270, 0280, 0290) then inhis2010= 01
/*Agriculture, Forestry, Fishing, and Hunting Industries*/;
else if INDBOC2010 in (0370, 0380, 0390, 0470, 0480, 0490) then INHIS2010= 02
/*Mining Industries*/;
else if INDBOC2010 in (0570, 0580, 0590, 0670, 0680, 0690) then INHIS2010= 03
/*Utilities Industries*/;
else if INDBOC2010 in (0770) then INHIS2010= 04
/*Construction Industries*/;
else if INDBOC2010 in (1070, 1080, 1090, 1170, 1180, 1190, 1270, 1280, 1290, 1370, 1390, 1470,
1480, 1490, 1570, 1590, 1670, 1680, 1690, 1770, 1790, 1870, 1880, 1890, 1990, 2070, 2090, 2170,
2180, 2190, 2270, 2280, 2290, 2370, 2380, 2390, 2470, 2480, 2490, 2570, 2590, 2670, 2680, 2690,
2770, 2780, 2790, 2870, 2880, 2890, 2970, 2980, 2990, 3070, 3080, 3090, 3170, 3180, 3190, 3290,
3360, 3370, 3380, 3390, 3470, 3490, 3570, 3580, 3590, 3670, 3680, 3690, 3770, 3780, 3790, 3870,
3890, 3960, 3970, 3980, 3990) then INHIS2010= 05
/*Manufacturing Industries*/;
else if INDBOC2010 in (4070, 4080, 4090, 4170, 4180, 4190, 4260, 4270, 4280, 4290, 4370, 4380,
4390, 4470, 4480, 4490, 4560, 4570, 4580, 4585, 4590) then INHIS2010= 06
/*Wholesale Trade Industries*/;
else if INDBOC2010 in (4670, 4680, 4690, 4770, 4780, 4790, 4870, 4880, 4890, 4970, 4980, 4990,
5070, 5080, 5090, 5170, 5180, 5190, 5270, 5280, 5290, 5370, 5380, 5390, 5470, 5480, 5490, 5570,
5580, 5590, 5591, 5592, 5670, 5680, 5690, 5790) then INHIS2010= 07
/*Retail Trade Industries*/;

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else if INDBOC2010 in (6070, 6080, 6090, 6170, 6180, 6190, 6270, 6280, 6290, 6370, 6380, 6390)
then INHIS2010= 08
/*Transportation and Warehousing Industries*/;

else if INDBOC2010 in (6470, 6480, 6490, 6570, 6590, 6670, 6672 , 6680, 6690, 6695, 6770, 6780) then
INHIS2010= 09
/*Information Industries*/;

else if INDBOC2010 in (6870, 6880, 6890, 6970, 6990) then INHIS2010= 10
/*Finance and Insurance Industries*/;

else if INDBOC2010 in (7070, 7080, 7170, 7180, 7190) then INHIS2010= 11
/*Real Estate and Rental and Leasing Industries*/;

else if INDBOC2010 in (7270, 7280, 7290, 7370, 7380, 7390, 7460, 7470, 7480, 7490) then INHIS2010= 12
/*Professional, Scientific, and Technical Services Industries*/;

else if INDBOC2010 in (7570) then INHIS2010= 13
/*Management of Companies and Enterprises Industries*/;

else if INDBOC2010 in (7580, 7590, 7670, 7680, 7690, 7770, 7780, 7790) then INHIS2010= 14
/*Administrative and Support and Waste Management and Remediation Services Industries*/;

else if INDBOC2010 in (7860, 7870, 7880, 7890) then INHIS2010= 15
/*Education Services Industries*/;

else if INDBOC2010 in (7970, 7980, 7990, 8070, 8080, 8090, 8170, 8180, 8190, 8270, 8290, 8370,
8380, 8390, 8470) then INHIS2010= 16
/*Health Care and Social Assistance Industries*/;

else if INDBOC2010 in (8560, 8570, 8580, 8590) then INHIS2010= 17
/*Arts, Entertainment, and Recreation Industries*/;

else if INDBOC2010 in (8660, 8670, 8680, 8690) then INHIS2010= 18
/*Accommodation and Food Services Industries*/;

else if INDBOC2010 in (8770, 8780, 8790, 8870, 8880, 8890, 8970, 8980, 8990, 9070, 9080, 9090,
9160, 9170, 9180, 9190, 9290) then INHIS2010= 19
/*Other Services (except Public Administration) Industries*/

else if INDBOC2010 in (9370, 9380, 9390, 9470, 9480, 9490, 9570, 9590) then INHIS2010= 20
/*Public Administration Industries*/;

else if INDBOC2010 in (9670, 9680, 9690, 9770, 9780, 9790, 9870) then INHIS2010= 21
/*Armed Forces*/;

*****NEW CATEGORY 98 ADDED BY NIOSH FOR NON-CENSUS CODES*****;
ELSE IF INDBOC2010 IN (9890,9880) THEN INHIS2010= 98
/*Unpaid Worker or Retired*/;*Non-census codes for 9890=homemaker, volunteer, student, OR unable
to work and 9880=retired;

*****CATEGORY 99 ALTERED BY NIOSH TO INCLUDE NHIS RECODES 97-99 "REFUSED, NOT
ASCERTAINED, AND DON'T KNOW"****;

else if INDBOC2010 in (9990) then INHIS2010= 99
/*Don't Know, Unknown, or Insufficient Information*/;

else if INDBOC2010 ne " " then INHIS2010=333;

label INHIS2010 = "Industry NHIS simple 2-digit recode of 2010 Census codes";
format INHIS2010 INHIS2010.;

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APPENDIX C ■

Industry Recode from the 2012 NAICS-Based Codes Obtained from Census

Numeric listing of Response Values and Labels for INDSTRN1 (detailed industry recode)

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Agriculture Industries
0170	01	Crop production
0180	02	Animal production
0190, 0270	03	Forestry and logging
0280	04	Fishing, hunting, and trapping
0290	05	Support activities for agriculture and forestry
		Mining Industries
0370	06	Oil and gas extraction
0380, 0390, 0470, 0480	07	Mining (except oil and gas)
0490	08	Support activities for mining
0570, 0580, 0590, 0670, 0680, 0690	09	Utilities Industries
0770	10	Construction Industries
		Manufacturing Industries
1070, 1080, 1090, 1170, 1180, 1190, 1270, 1280, 1290	11	Food manufacturing
1370, 1390	12	Beverage and tobacco product manufacturing
1470, 1480, 1490	13	Textile mills
1570, 1590, 1670	14	Textile product mills
1680, 1690, 1770	15	Apparel manufacturing
1790	16	Leather and allied product manufacturing
3770, 3780, 3790, 3875	17	Wood product manufacturing
1870, 1880, 1890	18	Paper manufacturing
1990	19	Printing and related support activities
2070, 2090	20	Petroleum and coal products manufacturing
2170, 2180, 2190, 2270, 2280, 2290	21	Chemical manufacturing
2370, 2380, 2390	22	Plastics and rubber products manufacturing
2470, 2480, 2490, 2570, 2590	23	Nonmetallic mineral product manufacturing
2670, 2680, 2690, 2770, 2780, 2990	24	Primary metal manufacturing

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
2790, 2870, 2880, 2890, 2970, 2980	25	Fabricated metal product manufacturing
3070, 3080, 3095, 3170, 3180, 3190, 3290	26	Machinery manufacturing
3365, 3370, 3380, 3390	27	Computer and electronic product manufacturing
3470, 3490	28	Electrical equipment, appliance, and component manufacturing
3570, 3580, 3590, 3670, 3680, 3690	29	Transportation equipment manufacturing
3895	30	Furniture and related product manufacturing
3960, 3970, 3980, 3990	31	Miscellaneous manufacturing
Wholesale Trade Industries		
4070, 4080, 4090, 4170, 4180, 4195, 4265, 4270, 4280, 4290	32	Merchant wholesalers, durable goods
4370, 4380, 4390, 4470, 4480, 4490, 4560, 4570, 4580, 4585	33	Merchant wholesalers, nondurable goods
4590	34	Non-specified wholesale trade
Retail Trade Industries		
4670, 4680, 4690	35	Motor vehicle and parts dealers
4770	36	Furniture and home furnishings stores
4780, 4795	37	Electronics and appliance stores
4870, 4880, 4890	38	Building material and garden equipment and supplies dealers
4970, 4980, 4990	39	Food and beverage stores
5070, 5080	40	Health and personal care stores
5090	41	Gasoline stations
5170, 5180, 5190	42	Clothing and clothing accessories stores
5275, 5280, 5295, 5370	43	Sporting goods, camera, hobby, book and music stores
5380, 5390	44	General merchandise stores
5470, 5480, 5490, 5570, 5580	45	Miscellaneous store retailers
5590, 5591, 5592, 5670, 5680, 5690, 5790	46	Nonstore retailers and non-specified retail trade
Transportation and Warehousing Industries		
6070, 6080, 6090, 6170, 6180, 6190, 6270, 6280, 6290	47	Transportation (including support activities for transportation)
6370, 6380	48	Postal service, couriers, and messengers
6390	49	Warehousing and storage

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Information Industries
6470, 6480, 6490	50	Publishing industries (except internet)
6570, 6590	51	Motion picture and sound recording industries
6670, 6680, 6690	52	Broadcasting and telecommunications
6770, 6672, 6695, 6780	53	Information services and data processing
		Finance and Insurance Industries
6870	54	Monetary authorities -- central bank
6880, 6890	55	Credit intermediation and related activities
6970	56	Securities, commodity contracts, other financial investments & related activities
6990	57	Insurance carriers and related activities
		Real Estate and Rental and Leasing Industries
7070	58	Real estate
7080, 7170, 7180	59	Rental and leasing services
7190	60	Lessors of nonfinancial intangible assets (except copyrighted works)
7270, 7280, 7290, 7370, 7380, 7390, 7460, 7470, 7480, 7490	61	Professional, Scientific, and Technical Services Industries
7570	62	Management of Companies and Enterprises Industries
7580, 7590, 7670, 7680, 7690, 7770, 7780, 7790	63	Administrative and Support and Waste Management and Remediation Services Industries
7860, 7870, 7880 7890	64	Education Services Industries
		Health Care and Social Assistance Industries
7970, 7980, 7990, 8070, 8080, 8090, 8170, 8180	65	Ambulatory health care services
8190	66	Hospitals
8270, 8290	67	Nursing and residential care facilities
8370, 8380, 8390, 8470	68	Social assistance
		Arts, Entertainment, and Recreation Industries
8560	69	Performing arts, spectator sports, and related industries
8570	70	Museums, historical sites, and similar institutions
8580, 8590	71	Amusement, gambling, and recreation industries

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Accommodation and Food Services Industries
8660, 8670	72	Accommodation
8680, 8690	73	Food services and drinking places
		Other Services (except Public Administration) Industries
8770, 8780, 8790, 8870, 8880, 8890	74	Repair and maintenance
8970, 8980, 8990, 9070, 9080, 9090	75	Personal services (barber shops, beauty salons, nail salons, laundry, funeral homes and cemeteries)
9160, 9170, 9180, 9190	76	Religious, grantmaking, civic, labor, professional, and similar organizations
9290	77	Private households
9370, 9380, 9390, 9470, 9480, 9490, 9570, 9590	78	Public Administration Industries
9670, 9680, 9690, 9770, 9780, 9790, 9870, 9890	79	Armed Forces
9997	97	Refused, classified
9998 and all other codes not listed	98	Not ascertained
9999	99	Don't know
		<Blank: Not in Universe>

Numeric listing of Response Values and Labels for INDSTRN2 (simple industry recode)

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
0170, 0180, 0190, 0270, 0280, 0290	01	Agriculture, Forestry, Fishing, and Hunting Industries
0370, 0380, 0390, 0470, 0480, 0490	02	Mining Industries
0570, 0580, 0590, 0670, 0680, 0690	03	Utilities Industries
0770	04	Construction Industries
1070, 1080, 1090, 1170, 1180, 1190, 1270, 1280, 1290, 1370, 1390, 1470, 1480, 1490, 1670, 1570, 1590, 1680, 1690, 1770, 1790, 3770, 3780, 3790, 3875, 1870, 1880, 1890, 1990, 2070, 2090, 2170, 2180, 2190, 2270, 2280, 2290, 2370, 2380, 2390, 2470, 2480, 2490, 2570, 2590, 2670, 2680, 2690, 2770, 2990, 2790, 2870, 2880, 2890, 2970, 2980, 3070, 3080, 3095, 3170, 3180, 3190, 3290, 3365, 3370, 3380, 3390, 3470, 3490, 3570, 3580, 3590, 3670, 3680, 3690, 3895, 3960, 3970, 3980, 3990	05	Manufacturing Industries
4070, 4080, 4090, 4170, 4180, 4195, 4265, 4270, 4280, 4290, 4370, 4380, 4390, 4470, 4480, 4490, 4560, 4570, 4580, 4585, 4590	06	Wholesale Trade Industries
4670, 4680, 4690, 4770, 4780, 4795, 4870, 4880, 4890, 4970, 4980, 4990, 5070, 5080, 5090, 5170, 5180, 5190, 5275, 5280, 5295, 5370, 5380, 5390, 5470, 5480, 5490, 5570, 5580, 5590, 5591, 5592, 5670, 5680, 5690, 5790	07	Retail Trade Industries
6070, 6080, 6090, 6170, 6180, 6190, 6270, 6280, 6290, 6370, 6380, 6390	08	Transportation and Warehousing Industries
6470, 6480, 6490, 6570, 6590, 6670, 6672, 6680, 6690, 6695, 6770, 6780	09	Information Industries
6870, 6880, 6890, 6970, 6990	10	Finance and Insurance Industries
7070, 7080, 7170, 7180, 7190	11	Real Estate and Rental and Leasing Industries
7270, 7280, 7290, 7370, 7380, 7390, 7460, 7470, 7480, 7490	12	Professional, Scientific, and Technical Services Industries
7570	13	Management of Companies and Enterprises Industries
7580, 7590, 7670, 7680, 7690, 7770, 7780, 7790	14	Administrative and Support and Waste Management and Remediation Services

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
7860, 7870, 7880, 7890	15	Education Services Industries
7970, 7980, 7990, 8070, 8080, 8090, 8170, 8180, 8190, 8270, 8290, 8370, 8380, 8390, 8470	16	Health Care and Social Assistance Industries
8560, 8570, 8580, 8590	17	Arts, Entertainment, and Recreation Industries
8660, 8670, 8680, 8690	18	Accommodation and Food Services Industries
8770, 8780, 8790, 8870, 8880, 8890, 8970, 8980, 8990, 9070, 9080, 9090, 9160, 9170, 9180, 9190, 9290	19	Other Services (except Public Administration) Industries
9370, 9380, 9390, 9470, 9480, 9490, 9570, 9590	20	Public Administration Industries
9670, 9680, 9690, 9770, 9780, 9790, 9870, 9890	21	Armed Forces
9997	97	Refused, classified
9998 and all other codes not listed	98	Not ascertained
9999	99	Don't know
		<Blank: Not in Universe>

Note: Column 1 shows the 4-digit Census Industry codes; these are NOT available on NHIS public use files but are available through the NCHS Research Data Center. Column 2 shows the 2-digit recodes that are available on the NHIS public use files, and Column 3 shows the response labels for these recodes. INDSTRN1's 79 distinct categories and INDSTRN2's 21 categories are derived from the NAICS Industry Subsectors and Sectors, respectively, as identified by the U.S. Census Bureau and the Bureau of Labor Statistics. For additional supplemental information on these Industry Sectors and Subsectors, please copy and paste this link into your browser: <https://www.bls.gov/cps/cenind2012.htm>.

Occupation Recode based on 4-digit Census codes (from the 2010 SOC)

Numeric listing of Response Values and Labels for OCCUPN1 (detailed occupation recode)

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Management Occupations
0010, 0020, 0030	01	Chief executives; general and operations managers; legislators
0040, 0050, 0060	02	Advertising, marketing, promotions, public relations, and sales managers
0100, 0110, 0120, 0135, 0136, 0137, 0140, 0150, 0160	03	Operations specialties managers
0205, 0220, 0230, 0300, 0310, 0325, 0330, 0340, 0350, 0360, 0400, 0410, 0420, 0425, 0430	04	Other management occupations
		Business and Financial Operations Occupations
0500, 0510, 0520, 0530, 0540, 0565, 0600, 0630, 0640, 0650, 0700, 0710, 0725, 0726, 0735, 0740	05	Business operations specialists
0800, 0810, 0820, 0830, 0840, 0850, 0860, 0900, 0910, 0930, 0940, 0950	06	Financial specialists
		Computer and Mathematical Occupations
1005, 1006, 1007, 1010, 1020, 1030, 1050, 1060, 1105, 1106, 1107	07	Computer specialists
1200, 1210, 1220, 1230, 1240	08	Mathematical science occupations
		Architecture and Engineering Occupations
1300, 1310	09	Architects, surveyors, and cartographers
1320, 1330, 1340, 1350, 1360, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1500, 1510, 1520, 1530	10	Engineers
1540, 1550, 1560	11	Drafters, engineering, and mapping technicians
		Life, Physical, and Social Science Occupations
1600, 1610, 1640, 1650, 1660	12	Life scientists
1700, 1710, 1720, 1740, 1760	13	Physical scientists
1800, 1815, 1820, 1830, 1840, 1860	14	Social scientists and related workers
1900, 1910, 1920, 1930, 1940, 1950, 1965	15	Life, physical, and social science technicians

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Community and Social Services Occupations
2000, 2010, 2015, 2016, 2025	16	Counselors, social workers, and other community and social service specialists
2040, 2050, 2060	17	Religious workers
		Legal Occupations
2100, 2105, 2110	18	Lawyers, judges, and related workers
2145, 2160	19	Legal support workers
		Education, Training, and Library Occupations
2200	20	Postsecondary teachers
2300, 2310, 2320, 2330	21	Primary, secondary, and special education school teachers
2340	22	Other teachers and instructors
2400, 2430, 2440	23	Librarians, curators, and archivists
2540, 2550	24	Other education, training, and library occupations
		Arts, Design, Entertainment, Sports, and Media Occupations
2600, 2630	25	Art and design workers
2700, 2710, 2720, 2740, 2750, 2760	26	Entertainers and performers, sports and related workers
2800, 2810, 2825, 2830, 2840, 2850, 2860	27	Media and communication workers
2900, 2910, 2920, 2960	28	Media and communication equipment workers
		Healthcare Practitioners and Technical Occupations
3000, 3010, 3030, 3040, 3050, 3060, 3110, 3120, 3140, 3150, 3160, 3200, 3210, 3220, 3230, 3235, 3245, 3250, 3255, 3256, 3257, 3258, 3260	29	Health diagnosing and treating practitioners
3300, 3310, 3320, 3400, 3420, 3500, 3510, 3520, 3535	30	Health technologists and technicians
3540	31	Other healthcare practitioners and technical occupations
		Healthcare Support Occupations
3600	32	Nursing, psychiatric, and home health aides
3610, 3620	33	Occupational and physical therapist assistants and aides
3630, 3640, 3645, 3646, 3647, 3648, 3649, 3655	34	Other healthcare support occupations

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
3700, 3710, 3720, 3730	35	Protective Service Occupations First-line supervisors/managers, protective service workers
3740, 3750	36	Fire fighting and prevention workers
3800, 3820, 3830, 3840, 3850, 3860	37	Law enforcement workers
3900, 3910, 3930, 3940, 3945, 3955	38	Other protective service workers
		Food Preparation and Serving Related Occupations
4000, 4010	39	Supervisors, food preparation, and serving workers
4020, 4030	40	Cooks and food preparation workers
4040, 4050, 4060, 4110, 4120	41	Food and beverage serving working
4130, 4140, 4150, 4160	42	Other food preparation and serving related workers
		Building and Grounds Cleaning and Maintenance Occupations
4200, 4210	43	Supervisors, building and grounds cleaning and maintenance workers
4220, 4230, 4240	44	Building cleaning and pest control workers
4250	45	Grounds maintenance workers
		Personal Care and Service Occupations
4300, 4320	46	Supervisors, personal care and service workers
4340, 4350	47	Animal care and service workers
4400, 4410, 4420, 4430	48	Entertainment attendants and related workers
4460, 4465	49	Funeral service workers
4500, 4510, 4520	50	Personal appearance workers
4530, 4540	51	Transportation, tourism, and lodging attendants
4600, 4610, 4620, 4640, 4650	52	Other personal care and service workers
		Sales and Related Occupations
4700, 4710	53	Supervisors, sales workers
4720, 4740, 4750, 4760	54	Retail sales workers
4800, 4810, 4820, 4830, 4840	55	Sales representatives, services
4850	56	Sales representatives, wholesale and manufacturing
4900, 4920, 4930, 4940, 4950, 4965	57	Other sales and related workers

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
		Office and Administrative Support Occupations
5000	58	Supervisors, office and administrative support workers
5010, 5020, 5030	59	Communications equipment operators
5100, 5110, 5120, 5130, 5140, 5150, 5160, 5165	60	Financial clerks
5200, 5210, 5220, 5230, 5240, 5250, 5260, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5400, 5410, 5420	61	Information and record clerks
5500, 5510, 5520, 5530, 5540, 5550, 5560, 5600, 5610, 5620, 5630	62	Material recording, scheduling, dispatching, and distributing workers
5700	63	Secretaries and administrative assistants
5800, 5810, 5820, 5830, 5840, 5850, 5860, 5900, 5910, 5920, 5940	64	Other office and administrative support workers
		Farming, Fishing, and Forestry Occupations
6005	65	Supervisors, farming, fishing, and forestry workers
6010, 6020, 6040, 6050	66	Agricultural workers
6100, 6110	67	Fishing and hunting workers
6120, 6130	68	Forest, conservation, and logging workers
		Construction and Extraction Occupations
6200	69	Supervisors, construction and extraction workers
6210, 6220, 6230, 6240, 6250, 6260, 6300, 6310, 6320, 6330, 6355, 6360, 6400, 6420, 6430, 6440, 6460, 6500, 6515, 6520, 6530, 6540	70	Construction trades workers
6600	71	Helpers, construction trades
6660, 6700, 6710, 6720, 6730, 6740, 6750, 6765	72	Other construction and related workers
6800, 6820, 6830, 6840, 6910, 6920, 6930, 6940	73	Extraction workers
		Installation, Maintenance, and Repair Occupations
7000	74	Supervisors of installation, maintenance, and repair workers
7010, 7020, 7030, 7040, 7050, 7100, 7110, 7120, 7130	75	Electrical and electronic equipment mechanics, installers, and repairers

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
7140, 7150, 7160, 7200, 7210, 7220, 7240, 7260	76	Vehicle and mobile equipment mechanics, installers, and repairers
7300, 7315, 7320, 7330, 7340, 7350, 7360, 7410, 7420, 7430, 7440, 7510, 7520, 7540, 7550, 7560, 7600, 7610, 7630	77	Other installation, maintenance, and repair occupations
		Production Occupations
7700	78	Supervisors, production workers
7710, 7720, 7730, 7740, 7750	79	Assemblers and fabricators
7800, 7810, 7830, 7840, 7850, 7855	80	Food processing workers
7900, 7920, 7930, 7940, 7950, 7960, 8000, 8010, 8020, 8030, 8040, 8060, 8100, 8120, 8130, 8140, 8150, 8160, 8200, 8210, 8220	81	Metal workers and plastic workers
8250, 8255, 8256	82	Printing workers
8300, 8310, 8320, 8330, 8340, 8350, 8360, 8400, 8410, 8420, 8430, 8440, 8450, 8460	83	Textile, apparel, and furnishings workers
8500, 8510, 8520, 8530, 8540, 8550	84	Woodworkers
8600, 8610, 8620, 8630	85	Plant and system operators
8640, 8650, 8710, 8720, 8730, 8740, 8750, 8760, 8800, 8810, 8830, 8840, 8850, 8860, 8900, 8910, 8920, 8930, 8940, 8950, 8965	86	Other production occupations
		Transportation and Material Moving Occupations
9000	87	Supervisors, transportation and material moving workers
9030, 9040, 9050	88	Air transportation workers
9110, 9120, 9130, 9140, 9150	89	Motor vehicle operators
9200, 9230, 9240, 9260	90	Rail transportation workers
9300, 9310, 9330	91	Water transportation workers
9340, 9350, 9360, 9410, 9415, 9420	92	Other transportation workers
9500, 9510, 9520, 9560, 9600, 9610, 9620, 9630, 9640, 9650, 9720, 9730, 9740, 9750	93	Material moving workers
9800, 9810, 9820, 9830, 9840	94	Military Specific Occupations
9997	97	Refused, classified
9998 and all other codes not listed	98	Not ascertained
9999	99	Don't know
		<Blank: Not in Universe>

Numeric listing of Response Values and Labels for OCCUPN2 (simple occupation recode)

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
0010, 0020, 0030, 0040, 0050, 0060, 0100, 0110, 0120, 0135, 0136, 0137, 0140, 0150, 0160, 0205, 0220, 0230, 0300, 0310, 0325, 0330, 0340, 0350, 0360, 0400, 0410, 0420, 0425, 0430	01	Management Occupations
0500, 0510, 0520, 0530, 0540, 0565, 0600, 0630, 0640, 0650, 0700, 0710, 0725, 0726, 0735, 0740, 0800, 0810, 0820, 0830, 0840, 0850, 0860, 0900, 0910, 0930, 0940, 0950	02	Business and Financial Operations Occupations
1005, 1006, 1007, 1010, 1020, 1030, 1050, 1060, 1105, 1106, 1107, 1200, 1210, 1220, 1230, 1240	03	Computer and Mathematical Occupations
1300, 1310, 1320, 1330, 1340, 1350, 1360, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1500, 1510, 1520, 1530, 1540, 1550, 1560	04	Architecture and Engineering Occupations
1600, 1610, 1640, 1650, 1660, 1700, 1710, 1720, 1740, 1760, 1800, 1815, 1820, 1830, 1840, 1860, 1900, 1910, 1920, 1930, 1940, 1950, 1965	05	Life, Physical, and Social Science Occupations
2000, 2010, 2015, 2016, 2025, 2040, 2050, 2060	06	Community and Social Services Occupations
2100, 2105, 2110, 2145, 2160	07	Legal Occupations
2200, 2300, 2310, 2320, 2330, 2340, 2400, 2430, 2440, 2540, 2550	08	Education, Training, and Library Occupations
2600, 2630, 2700, 2710, 2720, 2740, 2750, 2760, 2800, 2810, 2825, 2830, 2840, 2850, 2860, 2900, 2910, 2920, 2960	09	Arts, Design, Entertainment, Sports and Media Occupations
3000, 3010, 3030, 3040, 3050, 3060, 3110, 3120, 3140, 3150, 3160, 3200, 3210, 3220, 3230, 3235, 3245, 3250, 3255, 3256, 3257, 3258, 3260, 3300, 3310, 3320, 3400, 3420, 3500, 3510, 3520, 3535, 3540	10	Healthcare Practitioners and Technical Occupations
3600, 3610, 3620, 3630, 3640, 3645, 3646, 3647, 3648, 3649, 3655	11	Healthcare Support Occupations

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
3700, 3710, 3720, 3730, 3740, 3750, 3800, 3820, 3830, 3840, 3850, 3860, 3900, 3910, 3930, 3940, 3945, 3955	12	Protective Service Occupations
4000, 4010, 4020, 4030, 4040, 4050, 4060, 4110, 4120, 4130, 4140, 4150, 4160	13	Food Preparation and Serving Related Occupations
4200, 4210, 4220, 4230, 4240, 4250	14	Building and Grounds Cleaning and Maintenance Occupations
4300, 4320, 4340, 4350, 4400, 4410, 4420, 4430, 4460, 4465, 4500, 4510, 4520, 4530, 4540, 4600, 4610, 4620, 4640, 4650	15	Personal Care and Service Occupations
4700, 4710, 4720, 4740, 4750, 4760, 4800, 4810, 4820, 4830, 4840, 4850, 4900, 4920, 4930, 4940, 4950, 4965	16	Sales and Related Occupations
5000, 5010, 5020, 5030, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5165, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5400, 5410, 5420, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5600, 5610, 5620, 5630, 5700, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5900, 5910, 5920, 5940	17	Office and Administrative Support Occupations
6005, 6010, 6020, 6040, 6050, 6100, 6110, 6120, 6130	18	Farming, Fishing, and Forestry Occupations
6200, 6210, 6220, 6230, 6240, 6250, 6260, 6300, 6310, 6320, 6330, 6355, 6360, 6400, 6420, 6430, 6440, 6460, 6500, 6515, 6520, 6530, 6540, 6600, 6660, 6700, 6710, 6720, 6730, 6740, 6750, 6765, 6800, 6820, 6830, 6840, 6910, 6920, 6930, 6940	19	Construction and Extraction Occupations
7000, 7010, 7020, 7030, 7040, 7050, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7200, 7210, 7220, 7240, 7260, 7300, 7315, 7320, 7330, 7340, 7350, 7360, 7410, 7420, 7430, 7440, 7510, 7520, 7540, 7550, 7560, 7600, 7610, 7630	20	Installation, Maintenance, and Repair Occupations

- Continued -

Column 1 Input Response Values	Column 2 Output Response Values	Column 3 Output Response Labels
7700, 7710, 7720, 7730, 7740, 7750, 7800, 7810, 7830, 7840, 7850, 7855, 7900, 7920, 7930, 7940, 7950, 7960, 8000, 8010, 8020, 8030, 8040, 8060, 8100, 8120, 8130, 8140, 8150, 8160, 8200, 8210, 8220, 8250, 8255, 8256, 8300, 8310, 8320, 8330, 8340, 8350, 8360, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8500, 8510, 8520, 8530, 8540, 8550, 8600, 8610, 8620, 8630, 8640, 8650, 8710, 8720, 8730, 8740, 8750, 8760, 8800, 8810, 8830, 8840, 8850, 8860, 8900, 8910, 8920, 8930, 8940, 8950, 8965	21	Production Occupations
9000, 9030, 9040, 9050, 9110, 9120, 9130, 9140, 9150, 9200, 9230, 9240, 9260, 9300, 9310, 9330, 9340, 9350, 9360, 9410, 9415, 9420, 9500, 9510, 9520, 9560, 9600, 9610, 9620, 9630, 9640, 9650, 9720, 9730, 9740, 9750	22	Transportation and Material Moving Occupations
9800, 9810, 9820, 9830, 9840	23	Military Specific Occupations
9997	97	Refused, classified
9998 and all other codes not listed	98	Not ascertained
9999	99	Don't know
		<Blank: Not in Universe>

Note: Column 1 shows the 4-digit Census Occupation codes; these are NOT available on NHIS public use files but are available through the NCHS Research Data Center. Column 2 shows the 2-digit recodes that are available on the NHIS public use files, and Column 3 shows the response labels for these recodes. OCCUPN1's 94 distinct categories and OCCUPN2's 23 categories are derived from the 2000 New SOC Occupation Subgroups and Major Occupation Groups, respectively, as determined by the U.S. Census Bureau and the Bureau of Labor Statistics. For additional supplemental information on these Occupation Groups and Subgroups, please copy and paste this link into your browser: <https://www.bls.gov/cps/cenocc2010.htm>. Source: 2017 National Health Interview Survey. 2017 Data Release. "Sample Adult file - Variable layout". Retrieved from: https://ftp.cdc.gov/pub/Health_Statistics/NCHS/Dataset_Documentation/NHIS/2017/samadult_layout.pdf

APPENDIX D ■

Census Occupation Code Crosswalk from 2002 to 2010

Census Occupation Code Crosswalk from 2002 to 2010 updated September 16, 2011

2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
11-1011	0010	Chief Executives	11-1011	0010	Chief Executives	
11-1021	0020	General and Operations Managers	11-1021	0020	General and Operations Managers	
11-1031	0030	Legislators	11-1031	0030	Legislators	
11-2011	0040	Advertising and Promotions Managers	11-2011	0040	Advertising and Promotions Managers	
11-2020	0050	Marketing and Sales Managers	11-2020	0050	Marketing and Sales Managers	
11-2031	0060	Public Relations Managers	11-2031	0060	Public Relations and Fundraising Managers	
11-3011	0100	Administrative Services Managers	11-3011	0100	Administrative Services Managers	
11-3021	0110	Computer and Information Systems Managers	11-3021	0110	Computer and Information Systems Managers	
11-3031	0120	Financial Managers	11-3031	0120	Financial Managers	
11-3040	0130	Human Resources Managers	11-3111	0135	Compensation and Benefits Managers	
			11-3121	0136	Human Resources Managers	
			11-3131	0137	Training and Development Managers	
11-3051	0140	Industrial Production Managers	11-3051	0140	Industrial Production Managers	
11-3061	0150	Purchasing Managers	11-3061	0150	Purchasing Managers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
11-3071	0160	Transportation, Storage, and Distribution Managers	11-3071	0160	Transportation, Storage, and Distribution Managers	
11-9011	0200	Farm, Ranch, and Other Agricultural Managers	11-9013	0205	Farmers, Ranchers, and Other Agricultural Managers	
11-9012	0210	Farmers and Ranchers				
11-9021	0220	Construction Managers	11-9021	0220	Construction Managers	
11-9030	0230	Education Administrators	11-9030	0230	Education Administrators	
11-9041	0300	Engineering Managers	11-9041	0300	Architectural and Engineering Managers	
11-9051	0310	Food Service Managers	11-9051	0310	Food Service Managers	
11-9061	0320	Funeral Directors	11-9061	0325	Funeral Service Managers	
11-9071	0330	Gaming Managers	11-9071	0330	Gaming Managers	
11-9081	0340	Lodging Managers	11-9081	0340	Lodging Managers	
11-9111	0350	Medical and Health Services Managers	11-9111	0350	Medical and Health Services Managers	
11-9121	0360	Natural Sciences Managers	11-9121	0360	Natural Sciences Managers	
11-9131	0400	Postmasters and Mail Superintendents	11-9131	0400	Postmasters and Mail Superintendents	
11-9141	0410	Property, Real Estate, and Community Association Managers	11-9141	0410	Property, Real Estate, and Community Association Managers	
11-9151	0420	Social and Community Service Managers	11-9151	0420	Social and Community Service Managers	
			11-9161	0425	Emergency Management Directors	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
11-9199	0430	Managers, All Other	11-9199	0430	Managers, All Other	
13-1011	0500	Agents and Business Managers of Artists, Performers, and Athletes	13-1011	0500	Agents and Business Managers of Artists, Performers, and Athletes	
13-1021	0510	Purchasing Agents and Buyers, Farm Products	13-1021	0510	Buyers and Purchasing Agents, Farm Products	
13-1022	0520	Wholesale and Retail Buyers, Except Farm Products	13-1022	0520	Wholesale and Retail Buyers, Except Farm Products	
13-1023	0530	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13-1023	0530	Purchasing Agents, Except Wholesale, Retail, and Farm Products	
13-1030	0540	Claims Adjusters, Appraisers, Examiners, and Investigators	13-1030	0540	Claims Adjusters, Appraisers, Examiners, and Investigators	
13-1041	0560	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	13-1041	0565	Compliance Officers	
13-1051	0600	Cost Estimators	13-1051	0600	Cost Estimators	
13-1070	0620	Human Resources, Training, and Labor Relations Specialists				
			13-1070	0630	Human Resources Workers	
			13-1141	0640	Compensation, Benefits, and Job Analysis Specialists	
			13-1151	0650	Training and Development Specialists	
13-1081	0700	Logisticians	13-1081	0700	Logisticians	
13-1111	0710	Management Analysts	13-1111	0710	Management Analysts	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
13-1121	0720	Meeting and Convention Planners	13-1121	0725	Meeting, Convention, and Event Planners	
			13-1131	0726	Fundraisers	
13-11XX	0730	Other Business Operations Specialists				
			13-1161	0735	Market Research Analysts and Marketing Specialists	
			13-1199	0740	Business Operations Specialists, All Other	
13-2011	0800	Accountants and Auditors	13-2011	0800	Accountants and Auditors	
13-2021	0810	Appraisers and Assessors of Real Estate	13-2021	0810	Appraisers and Assessors of Real Estate	
13-2031	0820	Budget Analysts	13-2031	0820	Budget Analysts	
13-2041	0830	Credit Analysts	13-2041	0830	Credit Analysts	
13-2051	0840	Financial Analysts	13-2051	0840	Financial Analysts	
13-2052	0850	Personal Financial Advisors	13-2052	0850	Personal Financial Advisors	
13-2053	0860	Insurance Underwriters	13-2053	0860	Insurance Underwriters	
13-2061	0900	Financial Examiners	13-2061	0900	Financial Examiners	
13-2070	0910	Loan Counselors and Officers	13-2070	0910	Credit Counselors and Loan Officers	
13-2081	0930	Tax Examiners, Collectors, and Revenue Agents	13-2081	0930	Tax Examiners and Collectors, and Revenue Agents	
13-2082	0940	Tax Preparers	13-2082	0940	Tax Preparers	
13-2099	0950	Financial Specialists, All Other	13-2099	0950	Financial Specialists, All Other	
15-10XX	1000	Computer Scientists and Systems Analysts				
			15-1111	1005	Computer and Information Research Scientists	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
			15-1121	1006	Computer Systems Analysts	
			15-1199	1107	Computer Occupations, All Other	
15-1021	1010	Computer Programmers	15-1131	1010	Computer Programmers	
15-1030	1020	Computer Software Engineers	15-113X	1020	Software Developers, Applications and Systems Software	
					Software Developers, Applications	15-1132
					Software Developers, Systems Software	15-1133
15-1041	1040	Computer Support Specialists	15-1150	1050	Computer Support Specialists	
15-1061	1060	Database Administrators	15-1141	1060	Database Administrators	
15-1071	1100	Network and Computer Systems Administrators	15-1142	1105	Network and Computer Systems Administrators	
15-1081	1110	Network Systems and Data Communications Analysts				
			15-1122	1007	Information Security Analysts	
			15-1134	1030	Web Developers	
			15-1143	1106	Computer Network Architects	
15-2011	1200	Actuaries	15-2011	1200	Actuaries	
15-2021	1210	Mathematicians	15-2021	1210	Mathematicians	
15-2031	1220	Operations Research Analysts	15-2031	1220	Operations Research Analysts	
15-2041	1230	Statisticians	15-2041	1230	Statisticians	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
15-2090	1240	Miscellaneous Mathematical Science Occupations	15-2090	1240	Miscellaneous Mathematical Science Occupations	
17-1010	1300	Architects, Except Naval	17-1010	1300	Architects, Except Naval	
17-1020	1310	Surveyors, Cartographers, and Photogrammetrists	17-1020	1310	Surveyors, Cartographers, and Photogrammetrists	
17-2011	1320	Aerospace Engineers	17-2011	1320	Aerospace Engineers	
17-2021	1330	Agricultural Engineers	17-2021	1330	Agricultural Engineers	
17-2031	1340	Biomedical Engineers	17-2031	1340	Biomedical Engineers	
17-2041	1350	Chemical Engineers	17-2041	1350	Chemical Engineers	
17-2051	1360	Civil Engineers	17-2051	1360	Civil Engineers	
17-2061	1400	Computer Hardware Engineers	17-2061	1400	Computer Hardware Engineers	
17-2070	1410	Electrical and Electronics Engineers	17-2070	1410	Electrical and Electronics Engineers	
17-2081	1420	Environmental Engineers	17-2081	1420	Environmental Engineers	
17-2110	1430	Industrial Engineers, including Health and Safety	17-2110	1430	Industrial Engineers, including Health and Safety	
17-2121	1440	Marine Engineers and Naval Architects	17-2121	1440	Marine Engineers and Naval Architects	
17-2131	1450	Materials Engineers	17-2131	1450	Materials Engineers	
17-2141	1460	Mechanical Engineers	17-2141	1460	Mechanical Engineers	
17-2151	1500	Mining and Geological Engineers, Including Mining Safety Engineers	17-2151	1500	Mining and Geological Engineers, Including Mining Safety Engineers	
17-2161	1510	Nuclear Engineers	17-2161	1510	Nuclear Engineers	
17-2171	1520	Petroleum Engineers	17-2171	1520	Petroleum Engineers	
17-2199	1530	Engineers, All Other	17-2199	1530	Engineers, All Other	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
17-3010	1540	Drafters	17-3010	1540	Drafters	
17-3020	1550	Engineering Technicians, Except Drafters	17-3020	1550	Engineering Technicians, Except Drafters	
17-3031	1560	Surveying and Mapping Technicians	17-3031	1560	Surveying and Mapping Technicians	
19-1010	1600	Agricultural and Food Scientists	19-1010	1600	Agricultural and Food Scientists	
19-1020	1610	Biological Scientists	19-1020	1610	Biological Scientists	
19-1030	1640	Conservation Scientists and Foresters	19-1030	1640	Conservation Scientists and Foresters	
19-1040	1650	Medical Scientists	19-1040	1650	Medical Scientists	
			19-1099	1660	Life scientists, all other	
19-2010	1700	Astronomers and Physicists	19-2010	1700	Astronomers and Physicists	
19-2021	1710	Atmospheric and Space Scientists	19-2021	1710	Atmospheric and Space Scientists	
19-2030	1720	Chemists and Materials Scientists	19-2030	1720	Chemists and Materials Scientists	
19-2040	1740	Environmental Scientists and Geoscientists	19-2040	1740	Environmental Scientists and Geoscientists	
19-2099	1760	Physical Scientists, All Other	19-2099	1760	Physical Scientists, All Other	
19-3011	1800	Economists	19-3011	1800	Economists	
19-3020	1810	Market and Survey Researchers	19-3022	1815	Survey Researchers	
19-3030	1820	Psychologists	19-3030	1820	Psychologists	
19-3041	1830	Sociologists	19-3041	1830	Sociologists	
19-3051	1840	Urban and Regional Planners	19-3051	1840	Urban and Regional Planners	
19-3090	1860	Miscellaneous Social Scientists and Related Workers	19-3090	1860	Miscellaneous Social Scientists and Related Workers	
19-4011	1900	Agricultural and Food Science Technicians	19-4011	1900	Agricultural and Food Science Technicians	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
19-4021	1910	Biological Technicians	19-4021	1910	Biological Technicians	
19-4031	1920	Chemical Technicians	19-4031	1920	Chemical Technicians	
19-4041	1930	Geological and Petroleum Technicians	19-4041	1930	Geological and Petroleum Technicians	
19-4051	1940	Nuclear Technicians	19-4051	1940	Nuclear Technicians	
19-40XX	1960	Other Life, Physical, and Social Science Technicians				
			19-4061	1950	Social Science Research Assistants	
			19-4090	1965	Miscellaneous Life, Physical, and Social Science Technicians	
21-1010	2000	Counselors	21-1010	2000	Counselors	
21-1020	2010	Social Workers	21-1020	2010	Social Workers	
			21-1092	2015	Probation officers and correctional treatment specialists	
			21-1093	2016	Social and human service assistants	
21-1090	2020	Miscellaneous Community and Social Service Specialists	21-109X	2025	Miscellaneous Community and Social Service Specialists, including health educators and community health workers	
					Health Educators	21-1091
					Community Health Workers	21-1094
					Community and Social Service Specialists, all other	21-1099
21-2011	2040	Clergy	21-2011	2040	Clergy	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
21-2021	2050	Directors, Religious Activities and Education	21-2021	2050	Directors, Religious Activities and Education	
21-2099	2060	Religious Workers, All Other	21-2099	2060	Religious Workers, All Other	
23-1011	2100	Lawyers	23-1011	2100	Lawyers	
			23-1012	2105	Judicial Law Clerks	
23-1020	2110	Judges, Magistrates, and Other Judicial Workers	23-1020	2110	Judges, Magistrates, and Other Judicial Workers	
23-2011	2140	Paralegals and Legal Assistants	23-2011	2145	Paralegals and Legal Assistants	
23-2090	2150	Miscellaneous Legal Support Workers	23-2090	2160	Miscellaneous Legal Support Workers	
25-1000	2200	Postsecondary Teachers	25-1000	2200	Postsecondary Teachers	
25-2010	2300	Preschool and Kindergarten Teachers	25-2010	2300	Preschool and Kindergarten Teachers	
25-2020	2310	Elementary and Middle School Teachers	25-2020	2310	Elementary and Middle School Teachers	
25-2030	2320	Secondary School Teachers	25-2030	2320	Secondary School Teachers	
25-2040	2330	Special Education Teachers	25-2050	2330	Special Education Teachers	
25-3000	2340	Other Teachers and Instructors	25-3000	2340	Other Teachers and Instructors	
25-4010	2400	Archivists, Curators, and Museum Technicians	25-4010	2400	Archivists, Curators, and Museum Technicians	
25-4021	2430	Librarians	25-4021	2430	Librarians	
25-4031	2440	Library Technicians	25-4031	2440	Library Technicians	
25-9041	2540	Teacher Assistants	25-9041	2540	Teacher Assistants	
25-90XX	2550	Other Education, Training, and Library Workers	25-90XX	2550	Other Education, Training, and Library Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
					Audio-Visual and Multimedia Collections Specialists	25-9010
					Farm and Home Management Advisors	25-9020
					Instructional Coordinators	25-9030
					Miscellaneous Education, Training, and Library Workers	25-9090
27-1010	2600	Artists and Related Workers	27-1010	2600	Artists and Related Workers	
27-1020	2630	Designers	27-1020	2630	Designers	
27-2011	2700	Actors	27-2011	2700	Actors	
27-2012	2710	Producers and Directors	27-2012	2710	Producers and Directors	
27-2020	2720	Athletes, Coaches, Umpires, and Related Workers	27-2020	2720	Athletes, Coaches, Umpires, and Related Workers	
27-2030	2740	Dancers and Choreographers	27-2030	2740	Dancers and Choreographers	
27-2040	2750	Musicians, Singers, and Related Workers	27-2040	2750	Musicians, Singers, and Related Workers	
27-2099	2760	Entertainers and Performers, Sports and Related Workers, All Other	27-2099	2760	Entertainers and Performers, Sports and Related Workers, All Other	
27-3010	2800	Announcers	27-3010	2800	Announcers	
27-3020	2810	News Analysts, Reporters and Correspondents	27-3020	2810	News Analysts, Reporters and Correspondents	
27-3031	2820	Public Relations Specialists	27-3031	2825	Public Relations Specialists	
27-3041	2830	Editors	27-3041	2830	Editors	
27-3042	2840	Technical Writers	27-3042	2840	Technical Writers	
27-3043	2850	Writers and Authors	27-3043	2850	Writers and Authors	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
27-3090	2860	Miscellaneous Media and Communication Workers	27-3090	2860	Miscellaneous Media and Communication Workers	
27-4010	2900	Broadcast and Sound Engineering Technicians and Radio Operators	27-4010	2900	Broadcast and Sound Engineering Technicians and Radio Operators	
27-4021	2910	Photographers	27-4021	2910	Photographers	
27-4030	2920	Television, Video, and Motion Picture Camera Operators and Editors	27-4030	2920	Television, Video, and Motion Picture Camera Operators and Editors	
27-4099	2960	Media and Communication Equipment Workers, All Other	27-4099	2960	Media and Communication Equipment Workers, All Other	
29-1011	3000	Chiropractors	29-1011	3000	Chiropractors	
29-1020	3010	Dentists	29-1020	3010	Dentists	
29-1031	3030	Dietitians and Nutritionists	29-1031	3030	Dietitians and Nutritionists	
29-1041	3040	Optometrists	29-1041	3040	Optometrists	
29-1051	3050	Pharmacists	29-1051	3050	Pharmacists	
29-1060	3060	Physicians and Surgeons	29-1060	3060	Physicians and Surgeons	
29-1071	3110	Physician Assistants	29-1071	3110	Physician Assistants	
29-1081	3120	Podiatrists	29-1081	3120	Podiatrists	
29-1111	3130	Registered Nurses				
29-1121	3140	Audiologists	29-1181	3140	Audiologists	
29-1122	3150	Occupational Therapists	29-1122	3150	Occupational Therapists	
29-1123	3160	Physical Therapists	29-1123	3160	Physical Therapists	
29-1124	3200	Radiation Therapists	29-1124	3200	Radiation Therapists	
29-1125	3210	Recreational Therapists	29-1125	3210	Recreational Therapists	
29-1126	3220	Respiratory Therapists	29-1126	3220	Respiratory Therapists	
29-1127	3230	Speech-Language Pathologists	29-1127	3230	Speech-Language Pathologists	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
			29-1128	3235	Exercise Physiologists	
29-1129	3240	Therapists, All Other	29-1129	3245	Therapists, All Other	
29-1131	3250	Veterinarians	29-1131	3250	Veterinarians	
			29-1141	3255	Registered Nurses	
			29-1151	3256	Nurse Anesthetists	
			29-1161	3257	Nurse Midwives	
			29-1171	3258	Nurse Practitioners	
29-1199	3260	Health Diagnosing and Treating Practitioners, All Other	29-1199	3260	Health Diagnosing and Treating Practitioners, All Other	
29-2010	3300	Clinical Laboratory Technologists and Technicians	29-2010	3300	Clinical Laboratory Technologists and Technicians	
29-2021	3310	Dental Hygienists	29-2021	3310	Dental Hygienists	
29-2030	3320	Diagnostic Related Technologists and Technicians	29-2030	3320	Diagnostic Related Technologists and Technicians	
29-2041	3400	Emergency Medical Technicians and Paramedics	29-2041	3400	Emergency Medical Technicians and Paramedics	
29-2050	3410	Health Diagnosing and Treating Practitioner Support Technicians	29-2050	3420	Health Practitioner Support Technologists and Technicians	
29-2061	3500	Licensed Practical and Licensed Vocational Nurses	29-2061	3500	Licensed Practical and Licensed Vocational Nurses	
29-2071	3510	Medical Records and Health Information Technicians	29-2071	3510	Medical Records and Health Information Technicians	
29-2081	3520	Opticians, Dispensing	29-2081	3520	Opticians, Dispensing	
29-2090	3530	Miscellaneous Health Technologists and Technicians	29-2090	3535	Miscellaneous Health Technologists and Technicians	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
29-9000	3540	Other Healthcare Practitioners and Technical Occupations	29-9000	3540	Other Healthcare Practitioners and Technical Occupations	
31-1010	3600	Nursing, Psychiatric, and Home Health Aides	31-1010	3600	Nursing, Psychiatric, and Home Health Aides	
31-2010	3610	Occupational Therapist Assistants and Aides	31-2010	3610	Occupational Therapy Assistants and Aides	
31-2020	3620	Physical Therapist Assistants and Aides	31-2020	3620	Physical Therapist Assistants and Aides	
31-9011	3630	Massage Therapists	31-9011	3630	Massage Therapists	
31-9091	3640	Dental Assistants	31-9091	3640	Dental Assistants	
31-909X	3650	Medical Assistants and Other Healthcare Support Occupations				
			31-9092	3645	Medical Assistants	
			31-9094	3646	Medical Transcriptionists	
			31-9095	3647	Pharmacy Aides	
			31-9096	3648	Veterinary Assistants and Laboratory Animal Caretakers	
			31-9097	3649	Phlebotomists	
			31-909X	3655	Healthcare support workers, all other, including medical equipment preparers	
					Medical equipment preparers	31-9093
					Healthcare Support Workers, All Other	31-9099
33-1011	3700	First-Line Supervisors/Managers of Correctional Officers	33-1011	3700	First-Line Supervisors of Correctional Officers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
33-1012	3710	First-Line Supervisors/ Managers of Police and Detectives	33-1012	3710	First-Line Supervisors of Police and Detectives	
33-1021	3720	First-Line Supervisors/ Managers of Fire Fighting and Prevention Workers	33-1021	3720	First-Line Supervisors of Fire Fighting and Prevention Workers	
33-1099	3730	Supervisors, Protective Service Workers, All Other	33-1099	3730	First-Line Supervisors of Protective Service Workers, All Other	
33-2011	3740	Fire Fighters	33-2011	3740	Firefighters	
33-2020	3750	Fire Inspectors	33-2020	3750	Fire Inspectors	
33-3010	3800	Bailiffs, Correctional Officers, and Jailers	33-3010	3800	Bailiffs, Correctional Officers, and Jailers	
33-3021	3820	Detectives and Criminal Investigators	33-3021	3820	Detectives and Criminal Investigators	
33-3031	3830	Fish and Game Wardens	33-3031	3830	Fish and Game Wardens	
33-3041	3840	Parking Enforcement Workers	33-3041	3840	Parking Enforcement Workers	
33-3051	3850	Police and Sheriff's Patrol Officers	33-3051	3850	Police and Sheriff's Patrol Officers	
33-3052	3860	Transit and Railroad Police	33-3052	3860	Transit and Railroad Police	
33-9011	3900	Animal Control Workers	33-9011	3900	Animal Control Workers	
33-9021	3910	Private Detectives and Investigators	33-9021	3910	Private Detectives and Investigators	
33-9030	3920	Security Guards and Gaming Surveillance Officers	33-9030	3930	Security Guards and Gaming Surveillance Officers	
33-9091	3940	Crossing Guards	33-9091	3940	Crossing Guards	
			33-9093	3945	Transportation Security Screeners	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
33-909X	3950	Lifeguards and Other Protective Service Workers	33-909X	3955	Lifeguards and Other Recreational, and All Other Protective Service Workers	
					Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	33-9092
					Protective Service Workers, All Other	33-9099
35-1011	4000	Chefs and Head Cooks	35-1011	4000	Chefs and Head Cooks	
35-1012	4010	First-Line Supervisors/ Managers of Food Preparation and Serving Workers	35-1012	4010	First-Line Supervisors of Food Preparation and Serving Workers	
35-2010	4020	Cooks	35-2010	4020	Cooks	
35-2021	4030	Food Preparation Workers	35-2021	4030	Food Preparation Workers	
35-3011	4040	Bartenders	35-3011	4040	Bartenders	
35-3021	4050	Combined Food Preparation and Serving Workers, Including Fast Food	35-3021	4050	Combined Food Preparation and Serving Workers, Including Fast Food	
35-3022	4060	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	35-3022	4060	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	
35-3031	4110	Waiters and Waitresses	35-3031	4110	Waiters and Waitresses	
35-3041	4120	Food Servers, Nonrestaurant	35-3041	4120	Food Servers, Nonrestaurant	
35-9011	4130	Dining Room and Cafeteria Attendants and Bartender Helpers	35-9011	4130	Dining Room and Cafeteria Attendants and Bartender Helpers	
35-9021	4140	Dishwashers	35-9021	4140	Dishwashers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
35-9031	4150	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	35-9031	4150	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	
35-9099	4160	Food Preparation and Serving Related Workers, All Other	35-9099	4160	Food Preparation and Serving Related Workers, All Other	
37-1011	4200	First-Line Supervisors/ Managers of Housekeeping and Janitorial Workers	37-1011	4200	First-Line Supervisors of Housekeeping and Janitorial Workers	
37-1012	4210	First-Line Supervisors/ Managers of Landscaping, Lawn Service, and Groundskeeping Workers	37-1012	4210	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	
37-201X	4220	Janitors and Building Cleaners	37-201X	4220	Janitors and Building Cleaners	
					Janitors and Cleaners, Except Maids and Housekeeping Cleaners	37-2011
					Building Cleaning Workers, All Other	37-2019
37-2012	4230	Maids and Housekeeping Cleaners	37-2012	4230	Maids and housekeeping cleaners	
37-2021	4240	Pest Control Workers	37-2021	4240	Pest Control Workers	
37-3010	4250	Grounds Maintenance Workers	37-3010	4250	Grounds Maintenance Workers	
39-1010	4300	First-line Supervisors/ Managers of Gaming Workers	39-1010	4300	First-Line Supervisors of Gaming Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
39-1021	4320	First-Line Supervisors/ Managers of Personal Service Workers	39-1021	4320	First-Line Supervisors of Personal Service Workers	
39-2011	4340	Animal Trainers	39-2011	4340	Animal Trainers	
39-2021	4350	Nonfarm Animal Caretakers	39-2021	4350	Nonfarm Animal Caretakers	
39-3010	4400	Gaming Services Workers	39-3010	4400	Gaming Services Workers	
39-3021	4410	Motion Picture Projectionists	39-3021	4410	Motion Picture Projectionists	
39-3031	4420	Ushers, Lobby Attendants, and Ticket Takers	39-3031	4420	Ushers, Lobby Attendants, and Ticket Takers	
39-3090	4430	Miscellaneous Entertainment Attendants and Related Workers	39-3090	4430	Miscellaneous Entertainment Attendants and Related Workers	
39-4000	4460	Funeral Service Workers	39-40XX	4460	Embalmers and Funeral Attendants	
					Embalmers	39-4011
					Funeral Attendants	39-4021
			39-4031	4465	Morticians, Undertakers, and Funeral Directors	
39-5011	4500	Barbers	39-5011	4500	Barbers	
39-5012	4510	Hairdressers, Hairstylists, and Cosmetologists	39-5012	4510	Hairdressers, Hairstylists, and Cosmetologists	
39-5090	4520	Miscellaneous Personal Appearance Workers	39-5090	4520	Miscellaneous Personal Appearance Workers	
39-6010	4530	Baggage Porters, Bellhops, and Concierges	39-6010	4530	Baggage Porters, Bellhops, and Concierges	
39-6020	4540	Tour and Travel Guides	39-7010	4540	Tour and Travel Guides	
39-6030	4550	Transportation Attendants				

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
39-9011	4600	Child Care Workers	39-9011	4600	Childcare Workers	
39-9021	4610	Personal and Home Care Aides	39-9021	4610	Personal Care Aides	
39-9030	4620	Recreation and Fitness Workers	39-9030	4620	Recreation and Fitness Workers	
39-9041	4640	Residential Advisors	39-9041	4640	Residential Advisors	
39-9099	4650	Personal Care and Service Workers, All Other	39-9099	4650	Personal Care and Service Workers, All Other	
41-1011	4700	First-Line Supervisors/Managers of Retail Sales Workers	41-1011	4700	First-Line Supervisors of Retail Sales Workers	
41-1012	4710	First-Line Supervisors/Managers of Non-Retail Sales Workers	41-1012	4710	First-Line Supervisors of Non-Retail Sales Workers	
41-2010	4720	Cashiers	41-2010	4720	Cashiers	
41-2021	4740	Counter and Rental Clerks	41-2021	4740	Counter and Rental Clerks	
41-2022	4750	Parts Salespersons	41-2022	4750	Parts Salespersons	
41-2031	4760	Retail Salespersons	41-2031	4760	Retail Salespersons	
41-3011	4800	Advertising Sales Agents	41-3011	4800	Advertising Sales Agents	
41-3021	4810	Insurance Sales Agents	41-3021	4810	Insurance Sales Agents	
41-3031	4820	Securities, Commodities, and Financial Services Sales Agents	41-3031	4820	Securities, Commodities, and Financial Services Sales Agents	
41-3041	4830	Travel Agents	41-3041	4830	Travel Agents	
41-3099	4840	Sales Representatives, Services, All Other	41-3099	4840	Sales Representatives, Services, All Other	
41-4010	4850	Sales Representatives, Wholesale and Manufacturing	41-4010	4850	Sales Representatives, Wholesale and Manufacturing	
41-9010	4900	Models, Demonstrators, and Product Promoters	41-9010	4900	Models, Demonstrators, and Product Promoters	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
41-9020	4920	Real Estate Brokers and Sales Agents	41-9020	4920	Real Estate Brokers and Sales Agents	
41-9031	4930	Sales Engineers	41-9031	4930	Sales Engineers	
41-9041	4940	Telemarketers	41-9041	4940	Telemarketers	
41-9091	4950	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	41-9091	4950	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	
41-9099	4960	Sales and Related Workers, All Other	41-9099	4965	Sales and Related Workers, All Other	
43-1011	5000	First-Line Supervisors/Managers of Office and Administrative Support Workers	43-1011	5000	First-Line Supervisors of Office and Administrative Support Workers	
43-2011	5010	Switchboard Operators, Including Answering Service	43-2011	5010	Switchboard Operators, Including Answering Service	
43-2021	5020	Telephone Operators	43-2021	5020	Telephone Operators	
43-2099	5030	Communications Equipment Operators, All Other	43-2099	5030	Communications Equipment Operators, All Other	
43-3011	5100	Bill and Account Collectors	43-3011	5100	Bill and Account Collectors	
43-3021	5110	Billing and Posting Clerks and Machine Operators	43-3021	5110	Billing and Posting Clerks	
43-3031	5120	Bookkeeping, Accounting, and Auditing Clerks	43-3031	5120	Bookkeeping, Accounting, and Auditing Clerks	
43-3041	5130	Gaming Cage Workers	43-3041	5130	Gaming Cage Workers	
43-3051	5140	Payroll and Timekeeping Clerks	43-3051	5140	Payroll and Timekeeping Clerks	
43-3061	5150	Procurement Clerks	43-3061	5150	Procurement Clerks	
43-3071	5160	Tellers	43-3071	5160	Tellers	
			43-3099	5165	Financial Clerks, All Other	
43-4011	5200	Brokerage Clerks	43-4011	5200	Brokerage Clerks	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
43-4021	5210	Correspondence Clerks	43-4021	5210	Correspondence Clerks	
43-4031	5220	Court, Municipal, and License Clerks	43-4031	5220	Court, Municipal, and License Clerks	
43-4041	5230	Credit Authorizers, Checkers, and Clerks	43-4041	5230	Credit Authorizers, Checkers, and Clerks	
43-4051	5240	Customer Service Representatives	43-4051	5240	Customer Service Representatives	
43-4061	5250	Eligibility Interviewers, Government Programs	43-4061	5250	Eligibility Interviewers, Government Programs	
43-4071	5260	File Clerks	43-4071	5260	File Clerks	
43-4081	5300	Hotel, Motel, and Resort Desk Clerks	43-4081	5300	Hotel, Motel, and Resort Desk Clerks	
43-4111	5310	Interviewers, Except Eligibility and Loan	43-4111	5310	Interviewers, Except Eligibility and Loan	
43-4121	5320	Library Assistants, Clerical	43-4121	5320	Library Assistants, Clerical	
43-4131	5330	Loan Interviewers and Clerks	43-4131	5330	Loan Interviewers and Clerks	
43-4141	5340	New Accounts Clerks	43-4141	5340	New Accounts Clerks	
43-4151	5350	Order Clerks	43-4151	5350	Order Clerks	
43-4161	5360	Human Resources Assistants, Except Payroll and Timekeeping	43-4161	5360	Human Resources Assistants, Except Payroll and Timekeeping	
43-4171	5400	Receptionists and Information Clerks	43-4171	5400	Receptionists and Information Clerks	
43-4181	5410	Reservation and Transportation Ticket Agents and Travel Clerks	43-4181	5410	Reservation and Transportation Ticket Agents and Travel Clerks	
43-4199	5420	Information and Record Clerks, All Other	43-4199	5420	Information and Record Clerks, All Other	
43-5011	5500	Cargo and Freight Agents	43-5011	5500	Cargo and Freight Agents	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
43-5021	5510	Couriers and Messengers	43-5021	5510	Couriers and Messengers	
43-5030	5520	Dispatchers	43-5030	5520	Dispatchers	
43-5041	5530	Meter Readers, Utilities	43-5041	5530	Meter Readers, Utilities	
43-5051	5540	Postal Service Clerks	43-5051	5540	Postal Service Clerks	
43-5052	5550	Postal Service Mail Carriers	43-5052	5550	Postal Service Mail Carriers	
43-5053	5560	Postal Service Mail Sorters, Processors, and Processing Machine Operators	43-5053	5560	Postal Service Mail Sorters, Processors, and Processing Machine Operators	
43-5061	5600	Production, Planning, and Expediting Clerks	43-5061	5600	Production, Planning, and Expediting Clerks	
43-5071	5610	Shipping, Receiving, and Traffic Clerks	43-5071	5610	Shipping, Receiving, and Traffic Clerks	
43-5081	5620	Stock Clerks and Order Fillers	43-5081	5620	Stock Clerks and Order Fillers	
43-5111	5630	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	43-5111	5630	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	
43-6010	5700	Secretaries and Administrative Assistants	43-6010	5700	Secretaries and Administrative Assistants	
43-9011	5800	Computer Operators	43-9011	5800	Computer Operators	
43-9021	5810	Data Entry Keyers	43-9021	5810	Data Entry Keyers	
43-9022	5820	Word Processors and Typists	43-9022	5820	Word Processors and Typists	
43-9031	5830	Desktop Publishers	43-9031	5830	Desktop Publishers	
43-9041	5840	Insurance Claims and Policy Processing Clerks	43-9041	5840	Insurance Claims and Policy Processing Clerks	
43-9051	5850	Mail Clerks and Mail Machine Operators, Except Postal Service	43-9051	5850	Mail Clerks and Mail Machine Operators, Except Postal Service	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
43-9061	5860	Office Clerks, General	43-9061	5860	Office Clerks, General	
43-9071	5900	Office Machine Operators, Except Computer	43-9071	5900	Office Machine Operators, Except Computer	
43-9081	5910	Proofreaders and Copy Markers	43-9081	5910	Proofreaders and Copy Markers	
43-9111	5920	Statistical Assistants	43-9111	5920	Statistical Assistants	
43-9199	5930	Office and Administrative Support Workers, All Other	43-9199	5940	Office and Administrative Support Workers, All Other	
45-1010	6000	First-Line Supervisors/ Managers of Farming, Fishing, and Forestry Workers	45-1011	6005	First-Line Supervisors of Farming, Fishing, and Forestry Workers	
45-2011	6010	Agricultural Inspectors	45-2011	6010	Agricultural Inspectors	
45-2021	6020	Animal Breeders	45-2021	6020	Animal Breeders	
45-2041	6040	Graders and Sorters, Agricultural Products	45-2041	6040	Graders and Sorters, Agricultural Products	
45-2090	6050	Miscellaneous Agricultural Workers	45-2090	6050	Miscellaneous Agricultural Workers	
45-3011	6100	Fishers and Related Fishing Workers	45-3011	6100	Fishers and Related Fishing Workers	
45-3021	6110	Hunters and Trappers	45-3021	6110	Hunters and Trappers	
45-4011	6120	Forest and Conservation Workers	45-4011	6120	Forest and Conservation Workers	
45-4020	6130	Logging Workers	45-4020	6130	Logging Workers	
47-1011	6200	First-Line Supervisors/ Managers of Construction Trades and Extraction Workers	47-1011	6200	First-Line Supervisors of Construction Trades and Extraction Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
47-2011	6210	Boilermakers	47-2011	6210	Boilermakers	
47-2020	6220	Brickmasons, Blockmasons, and Stonemasons	47-2020	6220	Brickmasons, Blockmasons, and Stonemasons	
47-2031	6230	Carpenters	47-2031	6230	Carpenters	
47-2040	6240	Carpet, Floor, and Tile Installers and Finishers	47-2040	6240	Carpet, Floor, and Tile Installers and Finishers	
47-2050	6250	Cement Masons, Concrete Finishers, and Terrazzo Workers	47-2050	6250	Cement Masons, Concrete Finishers, and Terrazzo Workers	
47-2061	6260	Construction Laborers	47-2061	6260	Construction Laborers	
47-2071	6300	Paving, Surfacing, and Tamping Equipment Operators	47-2071	6300	Paving, Surfacing, and Tamping Equipment Operators	
47-2072	6310	Pile-Driver Operators	47-2072	6310	Pile-Driver Operators	
47-2073	6320	Operating Engineers and Other Construction Equipment Operators	47-2073	6320	Operating Engineers and Other Construction Equipment Operators	
47-2080	6330	Drywall Installers, Ceiling Tile Installers, and Tapers	47-2080	6330	Drywall Installers, Ceiling Tile Installers, and Tapers	
47-2111	6350	Electricians	47-2111	6355	Electricians	
47-2121	6360	Glaziers	47-2121	6360	Glaziers	
47-2130	6400	Insulation Workers	47-2130	6400	Insulation Workers	
47-2141	6420	Painters, Construction and Maintenance	47-2141	6420	Painters, Construction and Maintenance	
47-2142	6430	Paperhangers	47-2142	6430	Paperhangers	
47-2150	6440	Pipelayers, Plumbers, Pipefitters, and Steamfitters	47-2150	6440	Pipelayers, Plumbers, Pipefitters, and Steamfitters	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
47-2161	6460	Plasterers and Stucco Masons	47-2161	6460	Plasterers and Stucco Masons	
47-2171	6500	Reinforcing Iron and Rebar Workers	47-2171	6500	Reinforcing Iron and Rebar Workers	
47-2181	6510	Roofers	47-2181	6515	Roofers	
47-2211	6520	Sheet Metal Workers	47-2211	6520	Sheet Metal Workers	
47-2221	6530	Structural Iron and Steel Workers	47-2221	6530	Structural Iron and Steel Workers	
			47-2231	6540	Solar Photovoltaic Installers	
47-3010	6600	Helpers, Construction Trades	47-3010	6600	Helpers, Construction Trades	
47-4011	6660	Construction and Building Inspectors	47-4011	6660	Construction and Building Inspectors	
47-4021	6700	Elevator Installers and Repairers	47-4021	6700	Elevator Installers and Repairers	
47-4031	6710	Fence Erectors	47-4031	6710	Fence Erectors	
47-4041	6720	Hazardous Materials Removal Workers	47-4041	6720	Hazardous Materials Removal Workers	
47-4051	6730	Highway Maintenance Workers	47-4051	6730	Highway Maintenance Workers	
47-4061	6740	Rail-Track Laying and Maintenance Equipment Operators	47-4061	6740	Rail-Track Laying and Maintenance Equipment Operators	
47-4071	6750	Septic Tank Servicers and Sewer Pipe Cleaners	47-4071	6750	Septic Tank Servicers and Sewer Pipe Cleaners	
47-4090	6760	Miscellaneous Construction and Related Workers	47-4090	6765	Miscellaneous Construction and Related Workers	
47-5010	6800	Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining	47-5010	6800	Derrick, Rotary Drill, and Service Unit Operators, Oil, Gas, and Mining	
47-5021	6820	Earth Drillers, Except Oil and Gas	47-5021	6820	Earth Drillers, Except Oil and Gas	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
47-5031	6830	Explosives Workers, Ordnance Handling Experts, and Blasters	47-5031	6830	Explosives Workers, Ordnance Handling Experts, and Blasters	
47-5040	6840	Mining Machine Operators	47-5040	6840	Mining Machine Operators	
47-5061	6910	Roof Bolters, Mining	47-5061	6910	Roof Bolters, Mining	
47-5071	6920	Roustabouts, Oil and Gas	47-5071	6920	Roustabouts, Oil and Gas	
47-5081	6930	Helpers--Extraction Workers	47-5081	6930	Helpers--Extraction Workers	
47-50XX	6940	Other Extraction Workers	47-50XX	6940	Other Extraction Workers	
					Rock Splitters, Quarry	47-5051
					Extraction Workers, All Other	47-5099
49-1011	7000	First-Line Supervisors/ Managers of Mechanics, Installers, and Repairers	49-1011	7000	First-Line Supervisors of Mechanics, Installers, and Repairers	
49-2011	7010	Computer, Automated Teller, and Office Machine Repairers	49-2011	7010	Computer, Automated Teller, and Office Machine Repairers	
49-2020	7020	Radio and Telecommunications Equipment Installers and Repairers	49-2020	7020	Radio and Telecommunications Equipment Installers and Repairers	
49-2091	7030	Avionics Technicians	49-2091	7030	Avionics Technicians	
49-2092	7040	Electric Motor, Power Tool, and Related Repairers	49-2092	7040	Electric Motor, Power Tool, and Related Repairers	
49-2093	7050	Electrical and Electronics Installers and Repairers, Transportation Equipment	49-2093	7050	Electrical and Electronics Installers and Repairers, Transportation Equipment	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
49-209X	7100	Electrical and Electronics Repairers, Industrial and Utility	49-209X	7100	Electrical and Electronics Repairers, Industrial and Utility	
					Electrical and Electronics Repairers, Commercial and Industrial Equipment	49-2094
					Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	49-2095
49-2096	7110	Electronic Equipment Installers and Repairers, Motor Vehicles	49-2096	7110	Electronic Equipment Installers and Repairers, Motor Vehicles	
49-2097	7120	Electronic Home Entertainment Equipment Installers and Repairers	49-2097	7120	Electronic Home Entertainment Equipment Installers and Repairers	
49-2098	7130	Security and Fire Alarm Systems Installers	49-2098	7130	Security and Fire Alarm Systems Installers	
49-3011	7140	Aircraft Mechanics and Service Technicians	49-3011	7140	Aircraft Mechanics and Service Technicians	
49-3021	7150	Automotive Body and Related Repairers	49-3021	7150	Automotive Body and Related Repairers	
49-3022	7160	Automotive Glass Installers and Repairers	49-3022	7160	Automotive Glass Installers and Repairers	
49-3023	7200	Automotive Service Technicians and Mechanics	49-3023	7200	Automotive Service Technicians and Mechanics	
49-3031	7210	Bus and Truck Mechanics and Diesel Engine Specialists	49-3031	7210	Bus and Truck Mechanics and Diesel Engine Specialists	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
49-3040	7220	Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics	49-3040	7220	Heavy Vehicle and Mobile Equipment Service Technicians and Mechanics	
49-3050	7240	Small Engine Mechanics	49-3050	7240	Small Engine Mechanics	
49-3090	7260	Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	49-3090	7260	Miscellaneous Vehicle and Mobile Equipment Mechanics, Installers, and Repairers	
49-9010	7300	Control and Valve Installers and Repairers	49-9010	7300	Control and Valve Installers and Repairers	
49-9021	7310	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	49-9021	7315	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	
49-9031	7320	Home Appliance Repairers	49-9031	7320	Home Appliance Repairers	
49-904X	7330	Industrial and Refractory Machinery Mechanics	49-904X	7330	Industrial and Refractory Machinery Mechanics	
					Industrial Machinery Mechanics	49-9041
					Refractory Materials Repairers, Except Brickmasons	49-9045
49-9042	7340	Maintenance and Repair Workers, General	49-9071	7340	Maintenance and Repair Workers, General	
49-9043	7350	Maintenance Workers, Machinery	49-9043	7350	Maintenance Workers, Machinery	
49-9044	7360	Millwrights	49-9044	7360	Millwrights	
49-9051	7410	Electrical Power-Line Installers and Repairers	49-9051	7410	Electrical Power-Line Installers and Repairers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
49-9052	7420	Telecommunications Line Installers and Repairers	49-9052	7420	Telecommunications Line Installers and Repairers	
49-9060	7430	Precision Instrument and Equipment Repairers	49-9060	7430	Precision Instrument and Equipment Repairers	
			49-9081	7440	Wind Turbine Service Technicians	
49-9091	7510	Coin, Vending, and Amusement Machine Servicers and Repairers	49-9091	7510	Coin, Vending, and Amusement Machine Servicers and Repairers	
49-9092	7520	Commercial Divers	49-9092	7520	Commercial Divers	
49-9094	7540	Locksmiths and Safe Repairers	49-9094	7540	Locksmiths and Safe Repairers	
49-9095	7550	Manufactured Building and Mobile Home Installers	49-9095	7550	Manufactured Building and Mobile Home Installers	
49-9096	7560	Riggers	49-9096	7560	Riggers	
49-9097	7600	Signal and Track Switch Repairers	49-9097	7600	Signal and Track Switch Repairers	
49-9098	7610	Helpers--Installation, Maintenance, and Repair Workers	49-9098	7610	Helpers-- Installation, Maintenance, and Repair Workers	
49-909X	7620	Other Installation, Maintenance, and Repair Workers	49-909X	7630	Other Installation, Maintenance, and Repair Workers	
					Fabric Menders, Except Garment	49-9093
					Installation, Maintenance, and Repair Workers, All Other	49-9099
51-1011	7700	First-Line Supervisors/ Managers of Production and Operating Workers	51-1011	7700	First-Line Supervisors of Production and Operating Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-2011	7710	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	51-2011	7710	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	
51-2020	7720	Electrical, Electronics, and Electromechanical Assemblers	51-2020	7720	Electrical, Electronics, and Electromechanical Assemblers	
51-2031	7730	Engine and Other Machine Assemblers	51-2031	7730	Engine and Other Machine Assemblers	
51-2041	7740	Structural Metal Fabricators and Fitters	51-2041	7740	Structural Metal Fabricators and Fitters	
51-2090	7750	Miscellaneous Assemblers and Fabricators	51-2090	7750	Miscellaneous Assemblers and Fabricators	
51-3011	7800	Bakers	51-3011	7800	Bakers	
51-3020	7810	Butchers and Other Meat, Poultry, and Fish Processing Workers	51-3020	7810	Butchers and Other Meat, Poultry, and Fish Processing Workers	
51-3091	7830	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51-3091	7830	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	
51-3092	7840	Food Batchmakers	51-3092	7840	Food Batchmakers	
51-3093	7850	Food Cooking Machine Operators and Tenders	51-3093	7850	Food Cooking Machine Operators and Tenders	
			51-3099	7855	Food Processing Workers, All Other	
51-4010	7900	Computer Control Programmers and Operators	51-4010	7900	Computer Control Programmers and Operators	
51-4021	7920	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4021	7920	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-4022	7930	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	51-4022	7930	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4023	7940	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	51-4023	7940	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4031	7950	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	51-4031	7950	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4032	7960	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4032	7960	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4033	8000	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4033	8000	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4034	8010	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4034	8010	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4035	8020	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	51-4035	8020	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4041	8030	Machinists	51-4041	8030	Machinists	
51-4050	8040	Metal Furnace and Kiln Operators and Tenders	51-4050	8040	Metal Furnace Operators, Tenders, Pourers, and Casters	
51-4060	8060	Model Makers and Patternmakers, Metal and Plastic	51-4060	8060	Model Makers and Patternmakers, Metal and Plastic	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-4070	8100	Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic	51-4070	8100	Molders and Molding Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4081	8120	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	51-4081	8120	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	
51-4111	8130	Tool and Die Makers	51-4111	8130	Tool and Die Makers	
51-4120	8140	Welding, Soldering, and Brazing Workers	51-4120	8140	Welding, Soldering, and Brazing Workers	
51-4191	8150	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	51-4191	8150	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	
51-4192	8160	Lay-Out Workers, Metal and Plastic	51-4192	8160	Layout Workers, Metal and Plastic	
51-4193	8200	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	51-4193	8200	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	
51-4194	8210	Tool Grinders, Filers, and Sharpeners	51-4194	8210	Tool Grinders, Filers, and Sharpeners	
51-4199	8220	Metal Workers and Plastic Workers, All Other	51-4199	8220	Metal Workers and Plastic Workers, All Other	
51-5010	8230	Bookbinders and Bindery Workers				
51-5021	8240	Job Printers				
51-5022	8250	Prepress Technicians and Workers	51-5111	8250	Prepress Technicians and Workers	
51-5023	8260	Printing Machine Operators	51-5112	8255	Printing Press Operators	
			51-5113	8256	Print Binding and Finishing Workers	
51-6011	8300	Laundry and Dry-Cleaning Workers	51-6011	8300	Laundry and Dry-Cleaning Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-6021	8310	Pressers, Textile, Garment, and Related Materials	51-6021	8310	Pressers, Textile, Garment, and Related Materials	
51-6031	8320	Sewing Machine Operators	51-6031	8320	Sewing Machine Operators	
51-6041	8330	Shoe and Leather Workers and Repairers	51-6041	8330	Shoe and Leather Workers and Repairers	
51-6042	8340	Shoe Machine Operators and Tenders	51-6042	8340	Shoe Machine Operators and Tenders	
51-6050	8350	Tailors, Dressmakers, and Sewers	51-6050	8350	Tailors, Dressmakers, and Sewers	
51-6061	8360	Textile Bleaching and Dyeing Machine Operators and Tenders	51-6061	8360	Textile Bleaching and Dyeing Machine Operators and Tenders	
51-6062	8400	Textile Cutting Machine Setters, Operators, and Tenders	51-6062	8400	Textile Cutting Machine Setters, Operators, and Tenders	
51-6063	8410	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	51-6063	8410	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	
51-6064	8420	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	51-6064	8420	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	
51-6091	8430	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	51-6091	8430	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	
51-6092	8440	Fabric and Apparel Patternmakers	51-6092	8440	Fabric and Apparel Patternmakers	
51-6093	8450	Upholsterers	51-6093	8450	Upholsterers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-6099	8460	Textile, Apparel, and Furnishings Workers, All Other	51-6099	8460	Textile, Apparel, and Furnishings Workers, All Other	
51-7011	8500	Cabinetmakers and Bench Carpenters	51-7011	8500	Cabinetmakers and Bench Carpenters	
51-7021	8510	Furniture Finishers	51-7021	8510	Furniture Finishers	
51-7030	8520	Model Makers and Patternmakers, Wood	51-7030	8520	Model Makers and Patternmakers, Wood	
51-7041	8530	Sawing Machine Setters, Operators, and Tenders, Wood	51-7041	8530	Sawing Machine Setters, Operators, and Tenders, Wood	
51-7042	8540	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	51-7042	8540	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	
51-7099	8550	Woodworkers, All Other	51-7099	8550	Woodworkers, All Other	
51-8010	8600	Power Plant Operators, Distributors, and Dispatchers	51-8010	8600	Power Plant Operators, Distributors, and Dispatchers	
51-8021	8610	Stationary Engineers and Boiler Operators	51-8021	8610	Stationary Engineers and Boiler Operators	
51-8031	8620	Water and Liquid Waste Treatment Plant and System Operators	51-8031	8620	Water and Wastewater Treatment Plant and System Operators	
51-8090	8630	Miscellaneous Plant and System Operators	51-8090	8630	Miscellaneous Plant and System Operators	
51-9010	8640	Chemical Processing Machine Setters, Operators, and Tenders	51-9010	8640	Chemical Processing Machine Setters, Operators, and Tenders	
51-9020	8650	Crushing, Grinding, Polishing, Mixing, and Blending Workers	51-9020	8650	Crushing, Grinding, Polishing, Mixing, and Blending Workers	
51-9030	8710	Cutting Workers	51-9030	8710	Cutting Workers	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-9041	8720	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	51-9041	8720	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	
51-9051	8730	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	51-9051	8730	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	
51-9061	8740	Inspectors, Testers, Sorters, Samplers, and Weighers	51-9061	8740	Inspectors, Testers, Sorters, Samplers, and Weighers	
51-9071	8750	Jewelers and Precious Stone and Metal Workers	51-9071	8750	Jewelers and Precious Stone and Metal Workers	
51-9080	8760	Medical, Dental, and Ophthalmic Laboratory Technicians	51-9080	8760	Medical, Dental, and Ophthalmic Laboratory Technicians	
51-9111	8800	Packaging and Filling Machine Operators and Tenders	51-9111	8800	Packaging and Filling Machine Operators and Tenders	
51-9120	8810	Painting Workers	51-9120	8810	Painting Workers	
51-9130	8830	Photographic Process Workers and Processing Machine Operators	51-9151	8830	Photographic Process Workers and Processing Machine Operators	
51-9141	8840	Semiconductor Processors	51-9141	8840	Semiconductor Processors	
51-9191	8850	Cementing and Gluing Machine Operators and Tenders	51-9191	8850	Adhesive Bonding Machine Operators and Tenders	
51-9192	8860	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	51-9192	8860	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
51-9193	8900	Cooling and Freezing Equipment Operators and Tenders	51-9193	8900	Cooling and Freezing Equipment Operators and Tenders	
51-9194	8910	Etchers and Engravers	51-9194	8910	Etchers and Engravers	
51-9195	8920	Molders, Shapers, and Casters, Except Metal and Plastic	51-9195	8920	Molders, Shapers, and Casters, Except Metal and Plastic	
51-9196	8930	Paper Goods Machine Setters, Operators, and Tenders	51-9196	8930	Paper Goods Machine Setters, Operators, and Tenders	
51-9197	8940	Tire Builders	51-9197	8940	Tire Builders	
51-9198	8950	Helpers--Production Workers	51-9198	8950	Helpers--Production Workers	
51-9199	8960	Production Workers, All Other	51-9199	8965	Production Workers, All Other	
53-1000	9000	Supervisors, Transportation and Material Moving Workers	53-1000	9000	Supervisors of Transportation and Material Moving Workers	
53-2010	9030	Aircraft Pilots and Flight Engineers	53-2010	9030	Aircraft Pilots and Flight Engineers	
53-2020	9040	Air Traffic Controllers and Airfield Operations Specialists	53-2020	9040	Air Traffic Controllers and Airfield Operations Specialists	
			53-2031	9050	Flight Attendants	
53-3011	9110	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	53-3011	9110	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	
53-3020	9120	Bus Drivers	53-3020	9120	Bus Drivers	
53-3030	9130	Driver/Sales Workers and Truck Drivers	53-3030	9130	Driver/Sales Workers and Truck Drivers	
53-3041	9140	Taxi Drivers and Chauffeurs	53-3041	9140	Taxi Drivers and Chauffeurs	
53-3099	9150	Motor Vehicle Operators, All Other	53-3099	9150	Motor Vehicle Operators, All Other	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
53-4010	9200	Locomotive Engineers and Operators	53-4010	9200	Locomotive Engineers and Operators	
53-4021	9230	Railroad Brake, Signal, and Switch Operators	53-4021	9230	Railroad Brake, Signal, and Switch Operators	
53-4031	9240	Railroad Conductors and Yardmasters	53-4031	9240	Railroad Conductors and Yardmasters	
53-40XX	9260	Subway, Streetcar, and Other Rail Transportation Workers	53-40XX	9260	Subway, Streetcar, and Other Rail Transportation Workers	
					Subway and Streetcar Operators	53-4041
					Rail Transportation Workers, All Other	53-4099
53-5011	9300	Sailors and Marine Oilers	53-5011	9300	Sailors and Marine Oilers	
53-5020	9310	Ship and Boat Captains and Operators	53-5020	9310	Ship and Boat Captains and Operators	
53-5031	9330	Ship Engineers	53-5031	9330	Ship Engineers	
53-6011	9340	Bridge and Lock Tenders	53-6011	9340	Bridge and Lock Tenders	
53-6021	9350	Parking Lot Attendants	53-6021	9350	Parking Lot Attendants	
53-6031	9360	Service Station Attendants	53-6031	9360	Automotive and Watercraft Service Attendants	
53-6051	9410	Transportation Inspectors	53-6051	9410	Transportation Inspectors	
			53-6061	9415	Transportation Attendants, except Flight Attendants	
53-60XX	9420	Other Transportation Workers	53-60XX	9420	Other Transportation Workers	
					Traffic Technicians	53-6041
					Transportation Workers, All Other	53-6099

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
53-7011	9500	Conveyor Operators and Tenders	53-7011	9500	Conveyor Operators and Tenders	
53-7021	9510	Crane and Tower Operators	53-7021	9510	Crane and Tower Operators	
53-7030	9520	Dredge, Excavating, and Loading Machine Operators	53-7030	9520	Dredge, Excavating, and Loading Machine Operators	
53-7041	9560	Hoist and Winch Operators	53-7041	9560	Hoist and Winch Operators	
53-7051	9600	Industrial Truck and Tractor Operators	53-7051	9600	Industrial Truck and Tractor Operators	
53-7061	9610	Cleaners of Vehicles and Equipment	53-7061	9610	Cleaners of Vehicles and Equipment	
53-7062	9620	Laborers and Freight, Stock, and Material Movers, Hand	53-7062	9620	Laborers and Freight, Stock, and Material Movers, Hand	
53-7063	9630	Machine Feeders and Offbearers	53-7063	9630	Machine Feeders and Offbearers	
53-7064	9640	Packers and Packagers, Hand	53-7064	9640	Packers and Packagers, Hand	
53-7070	9650	Pumping Station Operators	53-7070	9650	Pumping Station Operators	
53-7081	9720	Refuse and Recyclable Material Collectors	53-7081	9720	Refuse and Recyclable Material Collectors	
53-7111	9730	Shuttle Car Operators	53-7111	9730	Mine Shuttle Car Operators	
53-7121	9740	Tank Car, Truck, and Ship Loaders	53-7121	9740	Tank Car, Truck, and Ship Loaders	
53-7199	9750	Material Moving Workers, All Other	53-7199	9750	Material Moving Workers, All Other	
55-1010	9800	Military Officer Special and Tactical Operations Leaders/Managers	55-1010	9800	Military Officer Special and Tactical Operations Leaders	
55-2010	9810	First-Line Enlisted Military Supervisors/Managers	55-2010	9810	First-Line Enlisted Military Supervisors	

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2002 SOC code	2002 Census code	2000 SOC title	2010 SOC code	2010 Census Code	2010 SOC title	2010 SOC code for occupations without a separate Census code
55-3010	9820	Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members	55-3010	9820	Military Enlisted Tactical Operations and Air/Weapons Specialists and Crew Members	
none	9830	Military, Rank Not Specified	none	9830	Military, Rank Not Specified	
none	9920	Unemployed, with no work experience in the last 5 years or earlier or never worked Total Codes, 2002: 509 including military	none	9920	Unemployed, with no work experience in the last 5 years or earlier or never worked Total Codes, 2010: 539 including military	

Source: 2010 Census Occupation Coding Scheme. IPUMS – Current Population Survey. Retrieved from https://cps.ipums.org/cps/occ_transition_2002_2010.shtml

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DHHS (NIOSH) Publication No. 2022-125

DOI: <https://doi.org/10.26616/NIOSH PUB2022125>

