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# Harmonizing the 2010 and 2002 Census Occupation Coding Schemes

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### Harmonizing the 2010 and 2002 Census Occupation Coding Schemes

The study of occupations has a long history in the social sciences. The United States Census Bureau creates and updates occupation codes based on the Standard Occupation Classification System to systematically identify similar jobs and classify them into occupations. Periodic updates to occupation codes are necessary for documenting emerging and disappearing occupations and appropriately reflecting the labor market. While these updates are important for capturing the changing jobs that are performed in the United States, occupation code changes make it more complicated for researchers to make appropriate comparisons over time. This paper presents the methodology used at IPUMS to harmonize 2010 and 2002 Census occupation codes. Our work builds upon the foundation of existing harmonized occupation data available through IPUMS (variables OCC1950 and OCC1990). Combining our contribution with existing IPUMS infrastructure creates a consistent measure of occupation for all seven coding schemes over the 1950-2019 period.

Keywords: occupation classification, occupation codes, harmonization

#### Harmonizing the 2010 and 2002 Census Occupation Coding Schemes

The study of occupations has a long history in the social sciences. Population-level data on occupations are key for studying change in gender and racial occupational segregation (Weeden 1998; Cha 2013), for use as a proxy for socioeconomic status (Hauser and Warren 1997), or as a control in other analyses that have little to do with occupation. The United States Census Bureau (henceforth Census Bureau) creates occupation codes based on the Standard Occupation Classification (SOC) System to systematically identify similar jobs and classify them into occupations. Periodic updates to occupation codes are necessary for capturing changes in occupations and appropriately reflecting the labor market. While these updates, such as including more detail about information technology occupations and reducing detail about occupations that have been largely replaced by machines, are important for capturing the changing jobs that are performed in the United States, they are changes that make it more complicated for researchers to make appropriate comparisons over time. Making occupation coding schemes comparable over time is labor intensive, requiring extensive exploration of documentation, and many lines of code to translate occupation codes into a common system. It is inefficient for individual researchers to harmonize occupation codes for their own analyses, and the resulting occupational assignments may differ by researcher. It is preferable to make consistent and comparable occupation data available to the research community. This paper discusses the methodology IPUMS used to translate 2010 Census occupation codes first into the 2002 occupation coding scheme, and then into the 1990 scheme; when added to the existing IPUMS infrastructure, this creates a consistent measure of

occupation, based on 1990 occupation codes for all seven coding schemes over the 1950-2019 period.

The IPUMS Center for Data Integration at the University of Minnesota has been harmonizing and disseminating large scale survey and census microdata to researchers at no charge (www.ipums.org) since 1991. Its freely available databases include integrated microdata that describe millions of individuals drawn from hundreds of censuses and surveys. The hallmark of IPUMS is harmonizing variable codes for consistency across datasets and delivering documentation in a single, centralized location. As a leading disseminator of population-level data, IPUMS is an ideal central location for storing and disseminating harmonized occupation codes.

IPUMS currently offers harmonized occupation data in several databases (e.g., IPUMS USA and IPUMS CPS). The IPUMS variable OCC1950 (Sobek 1995) harmonizes raw occupation codes going back as far as 1850 into the 1950 Census Bureau occupational classification system. Similarly, the IPUMS variable OCC1990 (Meyer and Osborne 2005) harmonizes occupation codes from 1950 to 2000¹ into the 1990 Census Bureau occupational classification system. Additionally, IPUMS offers the raw occupation codes through the variable OCC, to retain richer detail that is available within each occupational coding scheme for those researchers who do not require a harmonized version of occupation to use across changes in the coding schemes. Given its broad reach, free

<sup>&</sup>lt;sup>1</sup> CPS uses the 2000-based occupation coding scheme through 2002.

access, and current provision of harmonized occupation information, IPUMS is the logical home for expanded harmonized occupation data.

Occupations coded into the 1990 Census occupation coding scheme are available in the variable OCC1990. OCC1990 applies a clear protocol and expert input from Census Bureau and Bureau of Labor Statistics (BLS) personnel to classify occupations originally coded using the 1950, 1960, 1970, 1980, and 2000 Census coding schemes according to the 1990 coding scheme<sup>2</sup> (Meyer and Osborne 2005). We trace occupations through Census Bureau occupation crosswalks. These crosswalks show how occupations are coded in adjacent schemes, and how they split or are aggregated. Original occupation codes based on the 1950-2000 schemes are assigned to only one 1990 occupation code based on modal assignment. IPUMS CPS offers the following example in its documentation of OCC1990:

Of persons coded as "Gaming managers" in 2000 (2000 code 33), the Census Bureau determined that 35% would have been coded as "Managers, service organizations" in 1990 (1990 code 21), while 65% would have been coded as "Managers, food serving and lodging establishments" (1990 code 17). In OCC1990, we assign original 2000 OCC values of 33 to 17 (Flood, King, Rodgers, Ruggles, and Warren 2018).

Since OCC1990 was developed in 2005, it did not include changes introduced by the 2010 Census occupation coding scheme. The American Community Survey (ACS) first

<sup>&</sup>lt;sup>2</sup> Despite 1990 occupation codes being the basis for OCC1990, some 1990 occupation codes are not included in the variable to facilitate its comparability over time.

used the 2010 Census occupation coding scheme in 2010, and the Current Population Survey (CPS) introduced the updated scheme in 2011. In this paper, we outline the changes in Census occupation codes since 2000, and describe our methodology for coding the 2010 Census occupation codes into the 1990 coding scheme.

Changes to the Census Occupational Coding Schemes

Census occupation codes are derived from the Standard Occupational Classification (SOC). BLS describes the SOC system as "a federal statistics standard used by federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data" (BLS 2018). SOC codes are designed to capture work for pay or profit, or among family-owned businesses where family members are not directly compensated; the SOC system excludes occupations unique to volunteers (BLS 2010). BLS and the Census Bureau must be able to collect and report data on occupations if detailed occupations are to be included in the SOC (BLS 2017); revisions to the SOC system allow for updates to the "nature of jobs, changes in terminology, growth and decline of occupations, and the refinement of category composition" (United States Census Bureau 2011b). There are substantial revisions between the 1970 and 1980 coding schemes, and again from 1990 to 2000. The most recent public use occupation data available through IPUMS utilize Census occupation codes based on the 2010 SOC revision. There are both one-to-one relationships between SOC and Census occupation codes, and Census occupation codes that aggregate similar SOC codes into a single

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occupation category. Generally, there are fewer Census occupation codes than there are SOC codes.

In addition to changes in the SOC over time, there are also changes to Census occupation codes. Between 2000 and 2002 Census introduced minor changes to occupation codes<sup>3</sup>. The 2010 Census occupation coding scheme includes additional detail compared to the 2000/2002 coding scheme; this additional detail allows for some occupations to be further disaggregated. For example, the 2000 occupation code "210: Lawyers" becomes "2100: Lawyers" in the 2002 scheme. The 2010 coding scheme splits the category "2100: Lawyers" between two new categories "2100: Lawyers, judges, magistrates, and other judicial workers" and "2105: Judicial Law Clerks". We refer hereafter to 2002 occupation codes when referring to Census occupation codes based on the 2000 SOC.

In 2010, there were changes to the SOC and Census occupation codes that make the 2010 occupation codes not strictly comparable with the 2002 occupation codes. Table 1 outlines the types of changes between the 2002 and 2010 Census occupation coding schemes. Table A1 in the appendix is a crosswalk that organizes the relationship between 2002 and 2010 occupation code based on the type of change between schemes for codes

<sup>3</sup> The differences between the 2000 and 2002 Census occupation codes are trivial. In 2002, the Census added a trailing zero to 2000 occupation codes. While this paper will refer to the 2002 coding scheme, it is identical to the 2000 coding scheme other than this trailing zero.

that differ between schemes; a full crosswalk of all 2010 Census occupation codes mapped to 2002 and 1990 codes is available in table A2 of the appendix. The 2010 Census occupational coding scheme contains 539 occupation codes, including four military codes; this is an increase compared to the 509 occupations included in the 2002 scheme. These changes are primarily concentrated in information technology, healthcare, printing, and human resource occupations (United States Census Bureau 2016). The majority of the 2010 Census occupation codes have the same SOC code, Census occupation code, and label between the 2002 and 2010 coding schemes and are directly comparable (427 of 539 codes). A further 44 of the 539 Census occupation codes in 2010 have a revised SOC code, or value label, but retain the same Census occupation codes, and can be compared to one another over time according to Census Bureau crosswalks. The remaining 2010 Census occupation codes (68) change between the two coding schemes. The remainder of this paper focuses on these 68 codes that change between the two coding schemes.

Table 1. Summar	v of 2010 Census	Occupation Co	ode Disposition
	,		

	Occupation Code Status						
Type of Difference	Different Census Occupation code	Revised SOC Code or Label; same Census Code	Identical SOC Code, Label, Census Occupation Code	Total			
None		44	427	471			
Uncontested New Codes (Section A)	30			30			
Contested New Codes (Section B)	38			38			
Total	68	44	427	539			

<sup>\*</sup>This represents a single occupation code in 2010, which aggregates two distinct occupation codes from the 2002 scheme.

The majority of codes that differ between the 2002 and 2010 schemes are the result of new occupation codes introduced in the 2010 scheme, which split 2002 occupation codes into multiple new 2010 codes. The new 2010 codes may be associated with one or more 2002 occupation codes. We classify the codes that differ between schemes by the ambiguity in addressing the change, dividing them between new 2010 codes that are associated with a single code under the 2002 scheme (uncontested), and new 2010 codes that are associated with two or more codes under the 2002 scheme (contested).

When a 2002 occupation code is split into two or more codes under the 2010 scheme and the new 2010 codes are not related to any other 2002 codes, each new 2010 code is uncontested; it can only be associated with the single 2002 code from which it was derived. These cases have a straightforward change to the Census occupation code, and all uncontested new 2010 codes can be directly assigned with their single 2002

counterpart. Our methodology for assigning uncontested new occupations is discussed in Section A below. The remaining 2010 occupation codes that differ between schemes are contested. When a new 2010 code is related to multiple 2002 codes, all of the associated 2002 codes are in contention as the appropriate assignment for the new 2010 code. These contested occupation codes comprise 7.1% of occupation codes in 2010 and are our methodology for assigning them to 2002 codes is discussed in section B below.

#### **METHODOLOGY**

The goal of this work is to understand how 2010 occupation codes map onto the 1990 coding scheme to update the IPUMS variable OCC1990. When OCC1990 was originally created, crosswalks associated Census occupation codes for 1950-2000 with the appropriate occupation category in the adjacent scheme, and identified the proportion of individuals in each occupation of the base year that should be coded into each occupation category under the adjacent coding scheme. These crosswalks provide two key pieces of information: first, how occupations are related across coding schemes, and second, the distribution of the base year occupation codes among the adjacent scheme codes; the distribution information is necessary for assigning the modal occupation. Other than 1980 and 2000, there is no direct crosswalk between the 1990 and base year occupation coding schemes. In the case of the 1950-1970 schemes, occupation codes are assigned iteratively through adjacent samples until they have been transformed into 1980 codes, which can be directly associated with 1990 codes.

Similarly, there is no direct crosswalk between the 2010 and 1990 coding schemes, so we first code the 2010 occupations to the 2002 coding scheme. To do this, we utilize two crosswalks: one to identify how codes map between the 2002 and 2010 coding schemes, and another to identify the proportion of each 2010 category is associated with corresponding 2002 occupation code. The Census Bureau document "2010 Occupation Codes with Crosswalk from 2002" (referred to as the Occupation Code Crosswalk going forward) (United States Census Bureau 2011a) associates all 2002 occupation codes with one or more occupation codes in 2010. This provides the first piece of necessary information: identifying how codes are related between the 2002 and 2010 coding schemes. However, the Occupation Code Crosswalk does not provide the distribution information that identifies the proportion of each 2010 code that is associated with the 2002 codes. A second Census Bureau crosswalk provides the proportion of a 2002 code that is associated with each 2010 code based on 2008-2010 ACS data (United States Census Bureau 2011c); we refer to this crosswalk as the Conversion Rate Crosswalk hereafter. This Conversion Rate Crosswalk makes a forward association of the proportions; dividing 2002 occupation codes among the new 2010 codes. However, to translate 2010 codes first to 2002, and then 1990 occupations, we must manipulate the information from the crosswalk to make a backward association. Additionally, the Conversion Rate Crosswalk includes less detailed occupation codes because of disclosure concerns in ACS data<sup>4</sup>. We supplement the conversion rate information from the Conversion Rate Crosswalk with more detailed codes in the Occupation Code Crosswalk to create a complete map of the relationship between the two coding schemes and the conversion rates.

# Section A: Uncontested New Codes

Updates to the 2010 occupation codes include the addition of new occupations. Newly added occupations often add detail and disaggregate what was previously a singular, broad category. For example, the 2002 occupation code "0130: Human resources managers" was split into three 2010 codes: "0135: Compensation and benefits managers," "0136: Human resources managers," and "0137: Training and development managers." All of the new 2010 occupations are only associated with the 2002 occupation code "0130" (the specific example is available in section A-1 of Table A1 in the appendix). Each new code in 2010 is first associated with the 2002 code of "0130," and then assigned to the appropriate 1990 code. There are 30 new occupation codes in 2010 that are uncontested and assigned to their 2002 counterpart using this approach.

<sup>4</sup> The 2008-2010 ACS combines some occupation categories because of disclosure concerns; these combined occupation groups do not reflect changes to the underlying occupation codes, but rather modifications made prior to releasing data to limit the risk of identifying individuals.

#### Section B: Contested New Codes

A small number of new occupation codes in 2010 (38 of 539 codes) are associated with *more than one* 2002 category. When a new 2010 code pulls from multiple 2002 codes, the decision for assigning this new occupation to the correct 2002 occupation is more ambiguous. To address this ambiguity we first identify all 2002 codes that are related to the new 2010 code, and then calculate the total number of cases that each 2002 occupation contributes to the new 2010 code. We choose among the contending 2002 occupations using a modal assignment, assigning the new 2010 code to the 2002 code that contributes the most cases.

The new 2010 occupation code "0630" is a simple example of contested 2010 occupation codes. Between 2002 and 2010, the 2002 occupation code "0620: Human resources, training, and labor relations specialists" was split into three new codes: "0630: Human resources workers;" "640: Compensation, benefits, and job analysis specialists;" and "0650: Training and development specialists." Similarly, the 2002 occupation code "6000: First line supervisors/managers of farming, fishing, and forestry workers" was split into two codes: "6005: First-line supervisors of farming, fishing, and forestry workers;" and "0630: Human resources workers." The new 2010 occupation code "0630: Human resources workers" includes some cases from multiple 2002 occupation categories ("0620: Human resources, training, and labor relations specialists" and "6000: First-line supervisors/managers of farming, fishing, and forestry workers"). We must assign the new 2010 code "0630: Human resources workers," back to the appropriate

category in the 2002 scheme, selecting the modal occupation between "0620: Human resources, training, and labor relations specialists" and "6000: First-line supervisors/managers of farming, fishing, and forestry workers".

To incorporate 2010 codes into OCC1990, the 2010 codes must be coded *back* to the 2002 scheme, and then to the 1990 scheme. However, the proportions provided in the Conversion Rate Crosswalk are designed for assigning 2002 occupations *forward* into the 2010 codes; we can only identify the percentage of a 2002 code that will be assigned to each occupation under the 2010 scheme. Without denominators, the forward association of the Conversion Rate Crosswalk is insufficient. We use the 5-year 2005-2009 ACS data<sup>5</sup> from IPUMS (Ruggles et al. 2018) to estimate the total number of people coded to each occupation in 2002. These data allow us to estimate the number of people in each occupation category, which we will use for assigning contested 2010 codes to their appropriate modal 2002 counterpart<sup>6</sup>. This allows us to identify which 2002 category ("0620: Human resources, training, and labor relations specialists" or "6000: First-line supervisors/managers of farming, fishing, and forestry workers") contributes more cases to the contested 2010 category ("0630: Human resources workers"). Whichever category

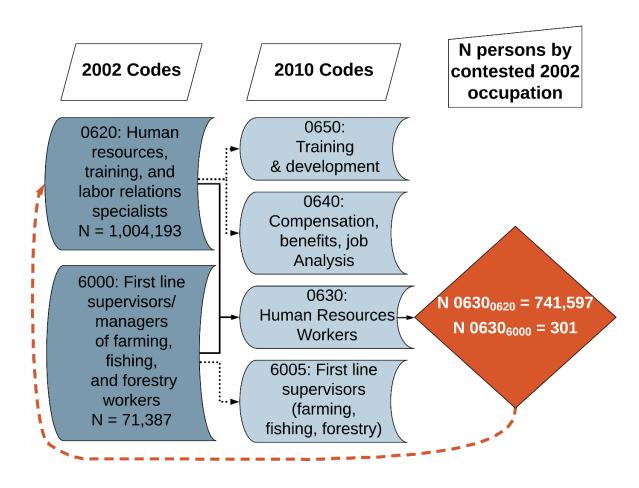
<sup>&</sup>lt;sup>5</sup> The 5-year 2005-2009 ACS data use 2002 occupation codes.

<sup>&</sup>lt;sup>6</sup> We use 2005-2009 5-Year ACS data to estimate the total size of each occupation code in 2002 for contested new codes in 2010. We selected this sample because it is the most recent and largest sample of ACS data that uses the 2002 occupation codes. Using only the 1-Year 2009 ACS data did not change our results.

is largest is the appropriate modal assignment; we can then *back-assign* the new 2010 code to the correct 2002 counterpart.

For each contested 2010 code, we estimate the total weighted count of each 2002 code that contributes cases to the new 2010 code. Next, we apply the proportions from the Conversion Rate Crosswalk to the weighted 2002 counts to project how many people in each 2002 code would be assigned to the contested 2010 code. Based on the number of people in each occupation in the 2005-2009 ACS and the conversion crosswalk, we construct the 2010 to 2002 modal assignment. This process is illustrated in Figure 1 using the human resources workers and forestry/fishing/farming supervisors described earlier (also available in Section B-1 of Table A1).

Figure 1: Illustration of Process for Selecting the Modal Assignment for Contested 2010 Occupation Codes.



Note: year-specific occupation codes are followed by year-specific occupation labels. Ns for occupation counts index the number of people with each 2010 occupation code who would have been assigned a 2002 occupation code based on Conversion Rate Crosswalk. Counts are based on weighted IPUMS 2005-2009 5-Year ACS Data.

The new 2010 occupation code "0630: Human resources workers" includes some cases from both "0620: Human resources, training, and labor relations specialists" and "6000: First-line supervisors/managers of farming, fishing, and forestry workers". Using 5-year 2005-2009 ACS data, we estimate 1,004,193 persons are coded to the 2002 occupation "0620: Human resources, training, and labor relations specialists"; using the Conversion

Rate Crosswalk, we know that 73.85% (1,004,193\*73.85%=741,597) of these cases would be classified under the contested 2010 occupation code "0630." An estimated 71,688 persons are coded to the 2002 occupation "6000: First-line supervisors of farming, fishing, and forestry workers" in the 5-year 2005-2009 ACS, and the Conversion Rate Crosswalk indicates 0.42% (71,688\*.42%=301) would be categorized under the new shared "0630" occupation code in 2010. We compare the total count of each 2002 occupation code that contribute cases to the contested 2010 code. Based on the larger contribution of the 2002 occupation code "0620", all new 2010 occupation codes of "0630" will be associated with the code "0620" in the 2002 scheme. Once 2010 codes are mapped onto 2002 occupations, we code them into the corresponding 1990 occupation code using 1990-2002 crosswalks.

Contested occupation codes comprise 7.1% of all new occupations in the 2010 Census occupation codes. While other contested codes in 2010 are more complex (e.g., more contributing 2002 occupations, smaller margins), we consistently use modal assignment, assigning all cases of a contested 2010 code to the same code in 2002. This systematic approach can be replicated in other datasets, and easily checked by researchers.

Additionally, researchers can choose to categorize these new occupations differently if they do not agree with our approach.

#### DISCUSSION

The majority of occupation codes are not affected by updates to the Census occupation coding scheme. Occupation codes that change between the schemes can be classified into two types of changes: 30 of the 68 codes that differ between schemes are uncontested, which have a straightforward relationship between the new 2010 code and their 2002 counterparts; the remaining 38 codes are contested between schemes and their assignment is more ambiguous.

Varying Levels of Occupation Detail in Datasets

The methodology for assigning the uncontested and contested codes in the 2010 occupation scheme to their 2002 counterparts is consistent within all IPUMS datasets that offer OCC1990. However, applying the same methodology to some PUMS files published by the Census Bureau, or other datasets with less detail may yield different results. The disclosure concerns that lead to aggregation of unique Census occupation codes in the Conversion Rate Crosswalk (which is based on ACS data) are also reflected in the ACS PUMS data.

For example the *Occupation Code Crosswalk* provides a comprehensive list of Census occupation codes between the 2002 and 2010 schemes, and identifies that the 2002 code "0320: Funeral managers" is split into two 2010 codes: "0325: Funeral service managers" and "4465: Morticians, undertakers, and funeral directors." However, the *Conversion Rate Crosswalk* splits the 2002 code of "0320: Funeral managers" onto "0430:

Miscellaneous managers, including funeral service managers and postmasters and mail superintendents" and "4465: Morticians, undertakers, and funeral directors." The code difference reflects that ACS PUMS data combine the new 2010 code "0325: Funeral service managers" with other unique census occupation codes in 2010<sup>7</sup>.

CPS occupation data typically include more detail than ACS data; while we apply the same methodology regardless of dataset or the detail a dataset contains, we will apply the methodology to the most detailed versions of data available. In the case of the new 2010 code "0325: Funeral service managers," IPUMS CPS will utilize the additional detail in CPS occupation codes make an association between the new 2010 code "0325" and the 2002 code from which is derived "0320." However, there is no "0325" category in ACS PUMS data. In this case, persons who may be best described as "Funeral service managers" will be coded by the Census Bureau to the aggregated code "0430: Miscellaneous managers, including funeral service managers and postmasters and mail superintendents" in 2010. IPUMS USA will then code these individuals to the 2002 code of "0430: Miscellaneous managers including postmasters and mail superintendents;" we cannot know which of the persons assigned to the broad "0430" 2010 category in ACS

<sup>&</sup>lt;sup>7</sup> The conversion crosswalk and ACS data combine the unique Census occupation codes "0325: Funeral service managers," "0400: Postmasters and mail superintendents," and "0430: Managers, all other" into a single category under the broadest category ("0430") and relabel it ("Miscellaneous managers, including funeral service managers and postmasters and mail superintendents").

PUMS data are funeral service managers. In this example, the aggregation that suppresses unique Census occupation codes results in different assignment of codes between 2010 and 2002, and then 1990 as compared to the assignments done using more detailed occupation data. Table A2 in the appendix reports the 2002 and 1990 assignments for 2010 occupations based on both the complete Census occupation codes and the less detailed coding scheme used in ACS PUMS data; this table also flags the 27 cases where the 1990 assignment differs because of the different level of detail.

# Loss of Detail in Expanding Occupations

Nearly all contested codes in the 2010 scheme represent emerging occupations, such as information technology, legal, health diagnosing & technology, trade and construction, printing, and human resources occupations. Only one of the new occupation codes under the 2010 scheme represents a disappearing occupation<sup>8</sup> that combines previously distinct occupations. The other 67 new codes in 2010 provide additional detail about occupations.

<sup>8</sup> The 2002 codes "0200: Farm, ranch, and other agricultural managers" and "0210: Farmers and ranchers" are combined into a single category in 2010: "0205: Farmers, ranchers, and other agricultural managers". Because the occupations are being combined, the conversion rate is 100%; all cases of both "0200" and "0210" contribute to the new 2010 code. In this single case, we directly compare the weighted total of each 2002 category, and use modal assignment to associate all values of the new 2010 code "0205" with the larger of the 2002 codes (in this case, "0210: Farmers and ranchers").

Incorporating each update to the occupation coding system involves the loss of some detail in an effort to harmonize changes to occupations over time. The additional detail available through expanding occupations (both contested and uncontested) is collapsed in the harmonization process, and our modal assignment methodology may result in lost occupations (e.g., beginning with the 2010 coding scheme, there will no longer be any cases of "0200: Farm, ranch, and other agricultural managers" in OCC1990). Even in the original 1990 coding scheme a small number of occupations are combined to increase the comparability of OCC1990 for the original time period of 1950-2000. Analysts interested in specific subsets of occupations may not find our modifications to the 2010 coding scheme suitable for their work. Similarly, while this approach can be iterated over multiple changes to the occupational coding scheme, researchers should consider how many changes in the coding scheme are appropriate for their analyses. The incorporation of each additional change to the coding scheme will result in further loss of detail. Researchers focused on a narrower time period may prefer a harmonized occupation variable with a different base-year that spans fewer changes in the occupational coding scheme<sup>9</sup>, or choose to use unharmonized occupation data.

<sup>9</sup> As previously mentioned OCC1950 uses the 1950 occupation coding scheme as its basis. Additionally, the variable OCC2010 translates other years' occupational information to the 2010 scheme.

#### Future Work

The Census Bureau is currently implementing 2018 SOC revisions in its data collection. When data using these revised codes become available, we will review documentation on the SOC and Census occupational system updates, Census crosswalks, and conversion rates. Using this information, we plan to extend the IPUMS harmonized occupation data to include additional years of data under a unique coding scheme.

#### **CONCLUSION**

The ability to compare occupations systematically and consistently over time is central to research that focuses directly on occupations and the labor market, as well as analyses that use occupation as a proxy or control. In this paper, we identify the lack of harmonized occupation data available under the 2010 Census occupation coding scheme, classify changes introduced with the 2010 coding scheme, and define a protocol that addresses these changes to create harmonized occupation data. The result of this research is freely available through the widely used IPUMS USA and IPUMS CPS databases through the variable OCC1990. This paper and IPUMS documentation include the relevant crosswalks, which researchers can apply to non-IPUMS datasets. This paper builds upon the foundation provided by the previous versions of the IPUMS variables OCC1950 and OCC1990. Including the 2010 occupation coding scheme creates opportunities for researchers to utilize recent occupation data with additional

years of data, allowing the long history of social science research of occupations to continue uninterrupted.

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# APPENDIX

Table A1. Crosswalk between 2002 and 2010 Occupation Codes that Differ between Coding Schemes

	Cross	swalk		Evidence	Result	
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment	
Section A: Uncontested Nev	w Codes					
A-1 Human resource management	occupations					
Human resources managers	0130					
		0135	Compensation and benefits managers		0130	
		0136	Human resources managers		0130	
		0137	Training and development managers		0130	
A-2 Medical and life science of	occupations					
Medical Scientists	1650					
		1650	Medical scientists		1650	
		1660	Life scientists, all other		1650	
A-3 Social service specialist o	ccupations					
Miscellaneous community and social service specialists	2020					
		2015	Probation officers and correctional treatment specialists		2020	
		2016	Social and human service assistants		2020	
		2025	Miscellaneous community and social service specialists, including health educators and community health workers		2020	
A-4 Therapy occupations						
Therapists, All Other	3240					
		3235	Exercise physiologists		3240	
A-5 Nursing occupations		3245	Therapists, all other		3240	
Registered Nurses	3130					
ווכאוזיבו בת ואתו זבז	3130	3255	Nurse anesthetists		3130	
		3256	Nurse practitioners and nurse midwives		3130	
		3257	Nurse midwives		3130	
		3258	Nurse practitioners		3130	

	Cross	swalk	Evidence	Result		
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment	
A-6 Medical assistant occupati	ons					
Medical assistants and other healthcare support occupations, except dental assistants	3650					
		3645	Medical assistants		3650	
		3646	Medical transcriptionists		3650	
		3647	Pharmacy aides		3650	
		3648	Veterinary assistants and laboratory animal caretakers		3650	
		3649	Phlebotomists		3650	
		3655	Healthcare support workers, all other, including medical equipment preparers		3650	
A-7 Transportation attendant	occupations					
Transportation Attendants	4550					
		9050	Flight attendants		4550	
		9415	Transportation attendants, except flight attendants		4550	
A-8 Sales occupations						
Sales and related workers, all other	4960					
		0726	Fundraisers		4960	
		4965	Sales and related workers, all other		4960	
A-9 Office and administrative s	support occupation	is				
Miscellaneous office and administrative support workers including desktop publishers	5930					
		5165	Financial clerks, all other		5930	
		5830	Desktop publishers		5930	
		5940	Office and administrative support workers, all other		5930	
Other production workers including semiconductor processors and cooling and freezing equipment operators	8960					
		7855	Food processing workers, all other		8960	
		8840	Semiconductor processors		8960	
		8900	Cooling and freezing equipment operators and tenders		8960	
		8965	Production workers, all other		8960	

	Cross	swalk		Evidence	Result	
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment	
Section B: Contested New Co	des					
B-1 Human resources and farm	ning/fishing/forest	ry supervision occi	upations			
Human resources workers	0620					
		0630	Human resources workers	741,597	0620	
		0640	Compensation, benefits, and job analysis specialists		0620	
		0650	Training and development specialists		0620	
First-line supervisors of farming, fishing, and forestry workers	6000					
·		0630	Human resources workers	301	0620	
		6005	First-line supervisors of farming, fishing, and forestry workers		6000	
B-2 Information technology occ	cupations					
Computer scientists and systems analysts	1000					
		1005	Computer and information research scientists		1000	
		1006	Computer systems analysts		1000	
		1106	Computer network architects	14,797	1110	
		1107	Computer occupations, all other		1000	
Computer support specialists	1040					
		1050	Computer support specialists	507,919	1040	
Network and computer systems administrators	1100					
		1105	Network and computer systems administrators	251,643	1100	
Network systems and data communications analysts	1110					
		1007	Information security analysts		1110	
		1030	Web developers		1110	
		1050	Computer support specialists	32,592	1040	
		1105	Network and computer systems administrators	66,340	1100	
D 2 Legal assumations		1106	Computer network architects	100,164	1110	
B-3 Legal occupations	24.00					
Lawyers	2100	2100	Lauriore		2100	
		2100 <b>2105</b>	Lawyers Judicial law clerks	9,259	2100	

	Cross	swalk		Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment
Paralegals and Legal Assistants	2140				
		2145	Paralegals and legal assistants	408,553	2140
Miscellaneous Legal Support Workers	2150				
		2105	Judicial law clerks	1,551	2100
		2145	Paralegals and legal assistants	22,023	2140
		2160	Miscellaneous legal support workers		2150
B-4 Health diagnosing and tec	hnology occupatior	ıs			
Health Diagnosing and Treating Practitioner Support Technicians	3410				
		3420	Health practitioner support technologists and technicians	550,636	3410
Miscellaneous Health Technologists and Technicians	3530				
		3420	Health practitioner support technologists and technicians	10,404	3410
		3535	Miscellaneous health technologists and technicians		3530
B-5 Protective service occupat	ions				
Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	0560				
		0565	Compliance officers		0560
		3945	Transportation security screeners	18	3920
Security Guards and Gaming Surveillance Officers	3920				
		3930	Security guards and gaming surveillance officers		3920
		3945	Transportation security screeners	24,581	3920
Lifeguards and Other Protective Service Workers	3950				
		3945	Transportation security screeners	832	3920
		3955	Lifeguards and other recreational, and all other protective service workers		3950
B-6 Installation (including sola	r panel) occupation	is			
Electricians	6350				
		6355	Electricians		6350

	Cross	swalk		Evidence	Result	
2002 Census Label*	2002 Census 2010 Census Code* Code*		2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment	
		6765	Miscellaneous construction workers, including solar photo voltaic installers, spetic tank servicers, and sewer pipe cleaners	191	6760	
Roofers	6510					
		6515	Roofers		6510	
		6765	Miscellaneous construction workers, including solar photo voltaic installers, spetic tank servicers, and sewer pipe cleaners	32	6760	
Miscellaneous construction workers, including septic tank servicers and sewer pipe cleaners	6760					
		6765	Miscellaneous construction workers, including solar photo voltaic installers, spetic tank servicers, and sewer pipe cleaners	62,917	6760	
Heating, air conditioning, and refrigeration mechanics and installers	7310					
		6765	Miscellaneous construction workers, including solar photo voltaic installers, spetic tank servicers, and sewer pipe cleaners	127	6760	
		7315	Heating, air conditioning, and refrigeration mechanics and installers		7310	
Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers	7620					
		6765	Miscellaneous construction workers, including solar photo voltaic installers, spetic tank servicers, and sewer pipe cleaners	223	6760	
		7630	Other installation, maintenance, and repair workers, including wind turbine service technicians, and commercial divers, and signal and track switch repairers		7620	

	Cross	swalk		Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment
B-7 Printing related occupation	ons				
Bookbinders and bindery workers	8230				
		8256	Print binding and finishing workers	47,454	8230
Job printers	8240				
		8255	Printing press operators	72,077	8260
Deinting and this control	0250	8256	Print binding and finishing workers	181	8230
Printing machine operators	8260	0255	Builting and a second	240.245	
		8255	Printing press operators	218,245	8260
B-8 Farm and ranch occupator	ns <sup>‡</sup>				
Farm, ranch, and other agricultural			Farmers, ranchers, and other agricultural		
managers	0200	0205	managers	238,284	0210
Farmers and Ranchers	0210	0205	Farmers, ranchers, and other agricultural managers	593,208	0210
B-9 Funeral occupations					
Funeral directors	0320				
		0325	Funeral service managers	6,487	0320
		4465	Morticians, undertakers, and funeral directors	45,079	0320
Funeral service workers	4460				
		4460	Embalmers and funeral attendants		4460
		4465	Morticians, undertakers, and funeral directors	21,158	0320
B-10 Business and social scien	nce occupations				
Meeting and Convention Planners	0720				
		0725	Meeting, convention, and event planners	51,341	0720
Other Business Operations Specialists	0730				
		0725	Meeting, convention, and event planners	1,687	0720
		0735	Market research analysts and marketing specialists	1,636	1810
		0740	Business operations specialists, all other		0720
		0425	Emergency management directors		0730
Public Relations Specialists	2820				
		0725	Meeting, convention, and event planners	2,063	0720

	Cross	Evidence	Result		
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 <sup>†</sup>	Final 2002 Census Code Assignment
		0735	Market research analysts and marketing specialists	5,823	1810
		2825	Public relations specialists		2820
Market and Survey Researchers	1810				
		0735	Market research analysts and marketing specialists	172,468	1810
		1815	Survey researchers		1810

<sup>\*</sup>These are detailed Census occupation codes, and are typically used in CPS data.

# Legend

2010 occupation codes and labels that are NOT contested, but associated with a 2002 occupation that includes some new contested codes in 2010 are noted in light gray text in the table.

2010 occupation codes and labels that are contested are noted in bold.

<sup>†</sup>Weighted Ns listed represent the proportion of each 2002 category that is attributed to the new, contested category in 2010.

<sup>‡</sup>Farm and ranch occupations are the only contested new 2010 code that is declining, wherea new 2010 occupation code is the aggregation of two or more 2002 codes.

Table A	2. Full Crosswalk for	2010 20	002 and 1000 Cansus	Occupation	n Codes, including Le	ss Detai	lled Code Information			
2010 Census Code	2. Pull Closswark for 2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
0010	Chief executives General and operations	0010	Chief executives General and operations	0010	Chief executives and legislators General and operations	004	Chief executives & general administrators, public administration Managers and	004	Chief executives & general administrators, public administration Managers and	
0020	managers	0020	managers	0020	managers	022	administrators, n.e.c.	022	administrators, n.e.c.	
0040	Advertising and promotions managers  Marketing and sales	0040	Advertising and promotions managers  Marketing and sales	0040	Advertising and promotions managers  Marketing and sales	013	Managers, marketing, advertising, and public relations Managers, marketing, advertising, and public	013	Managers, marketing, advertising, and public relations Managers, marketing, advertising, and public	
0050	managers	0050	managers	0050	managers	013	relations	013	relations	
0030	Public relations and	0030	Public relations		Public relations	013	Managers, marketing, advertising, and public		Managers, marketing, advertising, and public	
0060	fundraising managers Administrative services	0060	managers Administrative services	0060	managers Administrative services	013	relations	013	relations	
0100	managers Computer and	0100	managers Computer and	0100	managers Computer and	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0110	information systems managers	0110	information systems managers	0110	information systems managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0120	Financial managers	0120	Financial managers	0120	Financial managers	007	Financial managers	007	Financial managers	
0135	Compensation and benefits managers Human resources	0130	Human resources managers Human resources	0130	Human resources managers Human resources	008	Personnel and labor relations managers Personnel and labor	008	Personnel and labor relations managers Personnel and labor	
0136	managers	0130	managers	0130	managers	008	relations managers	008	relations managers	
0137	Training and development managers Industrial production	0130	Human resources managers Industrial production	0130	Human resources managers Industrial production	008	Personnel and labor relations managers Managers and	008	Personnel and labor relations managers Managers and	
0140	managers	0140	managers	0140	managers	022	administrators, n.e.c. Purchasing agents and	022	administrators, n.e.c. Purchasing agents and	
0150	Purchasing managers	0150	Purchasing managers	0150	Purchasing managers	033	buyers, n.e.c.	033	buyers, n.e.c.	
0160	Transportation, storage, and distribution managers	0160	Transportation, storage, and distribution managers	0160	Transportation, storage, and distribution managers	373	Expediters	373	Expediters	
0205	Farmers, ranchers, and other agricultural	0210		0240		472	Farmers, except	472	Farmers, except	
0205	managers	0210	Farmers and ranchers	0210	Farmers and ranchers	473	horticultural	473	horticultural	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990
554.5		000.0				33.3				Assignment
							Managers and		Managers and	
0220	Construction managers	0220	Construction managers	0220	Construction managers	022	administrators, n.e.c.	022	administrators, n.e.c.	
							Administrators,		Administrators,	
	Education		Education		Education		education and related		education and related	
0230	administrators	0230	administrators	0230	administrators	014	fields	014	fields	
	Architectural and						Managers and		Managers and	
0300	engineering managers	0300	Engineering managers	0300	Engineering managers	022	administrators, n.e.c. Managers, food serving	022	administrators, n.e.c.	
							"		Managers, food serving	
2212							and lodging		and lodging	
0310	Food service managers	0310	Food service managers	0310	Food service managers Miscellaneous	017	establishments	017	establishments	
					managers including					
	Funeral service				postmasters and mail				Managors and	
0225		0220	F	0420	Í.	040	Formand discarbana	022	Managers and	
0325	managers	0320	Funeral directors	0430	superintendents	019	Funeral directors  Managers, service	022	administrators, n.e.c. Managers, service	yes
0330	Caming managers	0330	Caming managers	0330	Gaming managers	021	organizations, n.e.c.	021	,	
0330	Gaming managers	0330	Gaming managers	0330	Gaming managers	021	Managers, food serving	021	organizations, n.e.c. Managers, food serving	
							and lodging		and lodging	
0240	Ladging managers	0340	Lodging managers	0340	Lodging managers	017	establishments	017	establishments	
0340	Lodging managers Medical and health	0340	Lodging managers Medical and health	0340	Lodging managers Medical and health	017	Managers, medicine	017	Managers, medicine	
0350	services managers	0350	services managers	0350	services managers	015	and health	015	and health	
0330	Natural sciences	0330	Natural sciences	0330	Natural sciences	013	Managers, service	013	Managers, service	
0360	managers	0360	managers	0360	managers	021	organizations, n.e.c.	021	organizations, n.e.c.	
0300	Intanagers	0300	managers	0300	managers	021	organizations, n.c.c.	021	organizations, n.c.c.	
	Property, real estate,		Property, real estate,		Property, real estate,					
	and community		and community		and community		Managers, properties		Managers, properties	
0410	association managers	0410	association managers	0410	association managers	018	and real estate	018	and real estate	
0.120	association managers	0.20	association managers	0.120	assessation managers	010	arra rear estate	020	and real colate	
	Social and community		Social and community		Social and community		Managers, service		Managers, service	
0420	service managers	0420	service managers	0420	service managers	021	organizations, n.e.c.	021	organizations, n.e.c.	
							<u> </u>		<b>0</b> ,	
	Emergency		Other business		Other business		Management related		Management related	
0425	management directors	0730	operations specialists	0730	operations specialists	037	occupations, n.e.c.	037	occupations, n.e.c.	
					Miscellaneous					
					managers including					
					postmasters and mail		Managers and		Managers and	
0430	Managers, all other	0430	Managers, all other	0430	superintendents	022	administrators, n.e.c.	022	administrators, n.e.c.	
	Agents and business		Agents and business		Agents and business					
	managers of artists,		managers of artists,		managers of artists,					
	performers, and		performers, and		performers, and		Business and promotion		Business and promotion	
0500	athletes	0500	athletes	0500	athletes	034	agents	034	agents	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Buyers and purchasing		Purchasing agents and		Purchasing agents and		Purchasing agents and		Purchasing agents and	
0510	agents, farm products	0510	buyers, farm products	0510	buyers, farm products	028	buyers, farm products	028	buyers, farm products	
	Wholesale and retail		Wholesale and retail		Wholesale and retail		Buyers, wholesale and		Buyers, wholesale and	
	buyers, except farm		buyers, except farm		buyers, except farm		retail trade, except farm		retail trade, except farm	
0520	products	0520	products	0520	products	029	products	029	products	
0530	Purchasing agents, except wholesale, retail, and farm products	0530	Purchasing agents, except wholesale, retail, and farm products	0530	Purchasing agents, except wholesale, retail, and farm products	033	Purchasing agents and buyers, n.e.c.	033	Purchasing agents and buyers, n.e.c.	
0330	and farm products	0330	ana tariii produces	0330	and farm products	033	buyers, melec	033	buyers, merer	
	Claims adjusters,		Claims adjusters,		Claims adjusters,		Insurance adjusters,		Insurance adjusters,	
	appraisers, examiners,		appraisers, examiners,		appraisers, examiners,		examiners, and		examiners, and	
0540	and investigators	0540	and investigators	0540	and investigators	375	investigators	375	investigators	
			except agriculture, construction, health and safety, and		compliance officers, except agriculture, construction, health and safety, and		Inspectors and compliance officers,		Inspectors and compliance officers,	
0565	Compliance officers	0560	transportation	0560	transportation	036	except construction	036	except construction	
0000	Compilarios ciriosis		transportation		transportation.		Managers and	- 555	Managers and	
0600	Cost estimators	0600	Cost estimators	0600	Cost estimators	022	administrators, n.e.c.	022	administrators. n.e.c.	
			Human resources,		Human resources,		Personnel, training, and		Personnel, training, and	
	Human resources		training, and labor		training, and labor		labor relations		labor relations	
0630	workers	0620	relations specialists	0620	relations specialists	027	specialists	027	specialists	
	Compensation, benefits,		Human resources,		Human resources,		Personnel, training, and		Personnel, training, and	
	and job analysis		training, and labor		training, and labor		labor relations		labor relations	
0640	specialists	0620	relations specialists	0620	relations specialists	027	specialists	027	specialists	
			Human resources,		Human resources,		Personnel, training, and		Personnel, training, and	
	Training and		training, and labor		training, and labor		labor relations		labor relations	
0650	development specialists	0620	relations specialists	0620	relations specialists	027	specialists	027	specialists	
							Operations and systems		Operations and systems	
							researchers and		researchers and	
0700	Logisticians	0700	Logisticians	0700	Logisticians	065	analysts	065	analysts	
0710	Management analysts	0710	Management analysts	0710	Management analysts	026	Management analysts	026	Management analysts	
	Meeting, convention,		Meeting and convention		Meeting and convention		Managers, service		Managers, service	
0725	and event planners	0720	planners	0720	planners	021	organizations, n.e.c.	021	organizations, n.e.c.	
			Sales and related		Sales and related		Sales workers, other		Sales workers, other	
0726	Fundraisers	4960	workers, all other	4960	workers, all other	274	commodities	274	commodities	
0=	Market research analysts and marketing		Market and survey		Market and survey					
0735	specialists	1810	researchers	1810	researchers	166	Economists	166	Economists	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Business operations		Other business		Other business		Management related		Management related	
0740	specialists, all other	0730	operations specialists	0730	operations specialists	037	occupations, n.e.c.	037	occupations, n.e.c.	
0000	Accountants and	0000	Accountants and	0000	Accountants and	022	Accountants and	022	Accountants and	
0800	auditors	0800	auditors	0800	auditors	023	auditors	023	auditors	
	Appraisers and		Appraisers and		Appraisers and		Real estate sales		Real estate sales	
0810	assessors of real estate	0810	assessors of real estate	0810	assessors of real estate	254	occupations	254	occupations	
0010	assessors or rear estate	0020	assessers or rear estate	0010	assessers or real estate		- Cocapations		o companions	
0820	Budget analysts	0820	Budget analysts	0820	Budget analysts	025	Other financial officers	025	Other financial officers	
0830	Credit analysts	0830	Credit analysts	0830	Credit analysts	025	Other financial officers	025	Other financial officers	
0840	Financial analysts	0840	Financial analysts	0840	Financial analysts	025	Other financial officers	025	Other financial officers	
0040	Personal financial	0040	Personal financial	0040	Personal financial	023	Other illiancial officers	023	Other illiancial officers	
0850	advisors	0850	advisors	0850	advisors	025	Other financial officers	025	Other financial officers	
0860	Insurance underwriters	0860	Insurance underwriters	0860	Insurance underwriters	024	Underwriters	024	Underwriters	
							Inspectors and		Inspectors and	
							compliance officers,		compliance officers,	
0900	Financial examiners	0900	Financial examiners	0900	Financial examiners	036	except construction	036	except construction	
	Credit counselors and		Loan counselors and		Loan counselors and					
0910	loan officers Tax examiners and	0910	officers Tax examiners,	0910	officers Tax examiners,	025	Other financial officers	025	Other financial officers	
			'		'		Accountants and		Accountants and	
0930	collectors, and revenue	0930	collectors, and revenue	0930	collectors, and revenue	023	auditors	023	Accountants and	
0930	agents	0930	agents	0930	agents	023	auditors	023	auditors	
0940	Tax preparers	0940	Tax preparers	0940	Tax preparers	025	Other financial officers	025	Other financial officers	
	Financial specialists, all		Financial specialists, all		Financial specialists, all					
0950	other	0950	other	0950	other	025	Other financial officers	025	Other financial officers	
	Computer and									
	information research		Computer scientists and		Computer scientists and		Computer systems		Computer systems	
1005	scientists	1000	systems analysts	1000	systems analysts	064	analysts and scientists	064	analysts and scientists	
	Computer systems		Computer scientists and		Computer scientists and		Computer systems		Computer systems	
1006	Computer systems	1000	Computer scientists and	1000	Computer scientists and	064	Computer systems	064	Computer systems	
1006	analysts	1000	systems analysts Network systems and	1000	systems analysts Network systems and	064	analysts and scientists	064	analysts and scientists	
	Information security		data communications		data communications		Computer systems		Computer systems	
1007	analysts	1110	analysts	1110	analysts	064	analysts and scientists	064	analysts and scientists	
							and selections			
1010	Computer programmers	1010	Computer programmers	1010	Computer programmers	229	Computer programmers	229	Computer programmers	
	Software developers,									
	applications and		Computer software		Computer software					
1020	systems software	1020	engineers	1020	engineers	229	Computer programmers	229	Computer programmers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
1030	Web developers	1110	Network systems and data communications analysts	1110	Network systems and data communications analysts	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1050	Computer support specialists	1040	Computer support specialists	1040	Computer support specialists	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1060	Database administrators	1060	Database administrators	1060	Database administrators	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1105	Network and computer systems administrators	1100	Network and computer systems administrators Network systems and	1100	Network and computer systems administrators Network systems and	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1106	Computer network architects	1110	data communications analysts	1110	data communications analysts	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1107	Computer occupations, all other	1000	Computer scientists and systems analysts	1000	Computer scientists and systems analysts	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1200	Actuaries	1200	Actuaries	1200	Actuaries wiscenaneous mathematical science occupations, including mathematicians and	066	Actuaries  Mathematical	066	Actuaries  Mathematical	
1210	Mathematicians  Operations research analysts	1210	Mathematicians  Operations research analysts	1240 1220	Statisticians Operations research analysts	068 065	scientists, n.e.c. Operations and systems researchers and analysts	068 065	scientists, n.e.c. Operations and systems researchers and analysts	
1230	Statisticians	1230	Statisticians	1240	Mathematicians IVIIscellaneous	067	Statisticians	068	Mathematical scientists, n.e.c.	yes
1240	Miscellaneous mathematical science occupations	1240	Miscellaneous mathematical science occupations	1240	mathematical science occupations, including mathematicians and statisticians	068	Mathematical scientists, n.e.c.	068	Mathematical scientists, n.e.c.	
1300	Architects, except naval Surveyors,	1300	Architects, except naval Surveyors,	1300	Architects, except naval Surveyors,	043	Architects	043	Architects	
1310 1320	cartographers, and photogrammetrists Aerospace engineers	1310 1320	cartographers, and photogrammetrists Aerospace engineers	1310 1320	cartographers, and photogrammetrists  Aerospace engineers	218 044	Surveying and mapping technicians  Aerospace engineers	218 044	Surveying and mapping technicians  Aerospace engineers	
1330	Agricultural engineers		Agricultural engineers	1340	Biomedical and agricultural engineers	059	Engineers, n.e.c.	059	Engineers, n.e.c.	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
					Biomedical and					
1340	Biomedical engineers	1340	Biomedical engineers	1340	agricultural engineers	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1350	Chemical engineers	1350	Chemical engineers	1350	Chemical engineers	048	Chemical engineers	048	Chemical engineers	
1360	Civil engineers	1360	Civil engineers	1360	Civil engineers	053	Civil engineers	053	Civil engineers	
	Computer hardware		Computer hardware		Computer hardware		Electrical and electronic		Electrical and electronic	
1400	engineers	1400	engineers	1400	engineers	055	engineers	055	engineers	
1.110	Electrical and	1410	Electrical and	4440	Electrical and electronic	055	Electrical and electronic	055	Electrical and electronic	
1410	electronics engineers Environmental	1410	electronics engineers Environmental	1410	engineers Environmental	055	engineers	055	engineers	
4.420		1420		4.420		050	F	050	F	
1420	engineers Industrial engineers,	1420	engineers Industrial engineers,	1420	engineers Industrial engineers,	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
	including health and		including health and		including health and					
1430	_	1430	safety	1430	safety	056	Industrial anginoers	056	Industrial angineers	
1430	safety Marine engineers and	1430	Marine engineers and	1430	Marine engineers and	050	Industrial engineers	056	Industrial engineers	
1440	naval architects	1440	naval architects	1440	naval architects	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1440	navai arcintects	1440	navai arcintects	1440	ilavai ai cilitects	039	Metallurgical and	039	Metallurgical and	
1450	Materials engineers	1450	Materials engineers	1450	Materials engineers	045	materials engineers	045	materials engineers	
1460	Mechanical engineers	1460	Mechanical engineers	1460	Mechanical engineers	057	Mechanical engineers	057	Mechanical engineers	
1.00	Mining and geological		Mining and geological	2.00	Petroleum, mining and geological engineers,	- 007	meenemeen en gineene	007	The contained of gardens	
	engineers, including		engineers, including		including mining safety					
1500	mining safety engineers	1500	mining safety engineers	1520	engineers	059	Engineers, n.e.c.	047	Petroleum engineers	ves
1300	mining sujety engineers	1300	mining sujety engineers	1320	Miscellaneous	033	Linginicers, in.e.c.	047	r etroicum engineers	yes
					engineers, including					
1510	Nuclear engineers	1510	Nuclear engineers	1530	nuclear engineers	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1520	Petroleum engineers	1520	Petroleum engineers	1520	Petroleum, mining and geological engineers, including mining safety engineers	047	Petroleum engineers	047	Petroleum engineers	
					Miscellaneous engineers, including					
1530	Engineers, all other	1530	Engineers, all other	1530	nuclear engineers	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1540	Drafters	1540	Drafters	1540	Drafters	217	Drafting occupations	217	Drafting occupations	
1550	Engineering technicians, except drafters	1550	Engineering technicians, except drafters	1550	Engineering technicians, except drafters	214	Industrial engineering technicians	214	Industrial engineering technicians	
	Surveying and mapping		Surveying and mapping		Surveying and mapping		Surveying and mapping		Surveying and mapping	
1560	technicians	1560	technicians	1560	technicians	218	technicians	218	technicians	
4.500	Agricultural and food	4505	Agricultural and food	1.500	Agricultural and food		Agricultural and food		Agricultural and food	
1600	scientists	1600	scientists	1600	scientists	077	scientists	077	scientists	

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1610	Biological scientists	1610	Biological scientists	1610	Biological scientists	078	Biological and life scientists	078	Biological and life scientists	
1640	Conservation scientists and foresters	1640	Conservation scientists and foresters	1640	Conservation scientists and foresters	079	Forestry and conservation scientists	079	Forestry and	
1650	Medical scientists	1650	Medical scientists	1650	Medical scientists	083	Medical scientists	083	conservation scientists  Medical scientists	
1030	ivieuicui scientists	1030	Wieuicui scientists	1030	ivieuicui scientists	063	ivieuicui scientists	003	Wieuicui scientists	
1660	Life scientists, all other Astronomers and	1650	Medical scientists Astronomers and	1650	Medical scientists Astronomers and	083	Medical scientists Physicists and	083	Medical scientists Physicists and	
1700		1700		1700		000	,	000	,	
1700	physicists Atmospheric and space	1700	physicists Atmospheric and space	1700	physicists Atmospheric and space	069	astronomers Atmospheric and space	069	astronomers Atmospheric and space	
1710	scientists	1710	scientists	1710	scientists	074	scientists	074	scientists	
1/10	Chemists and materials	1/10	Chemists and materials	1710	Chemists and materials	0/4	Chemists, except	074	Chemists, except	
1720	scientists	1720	scientists	1720	scientists	073	biochemists	073	biochemists	
1720	scientists	1/20	scientists	1720	Scientists	0/3	DIOCHEIIISIS	0/3	DIOCHEMISTS	
	Environmental scientists		Environmental scientists	4740	Environmental scientists		Geologists and		Geologists and	
1740	and geoscientists	1740	and geoscientists	1740	and geoscientists	075	geodesists	075	geodesists	
4760	Physical scientists, all	4760	Physical scientists, all	1760	Physical scientists, all	076	B	076	B	
1760	other	1760	other	1760	other	076	Physical scientists, n.e.c.	076	Physical scientists, n.e.c.	
1800	Economists	1800	Economists  Market and survey	1800	Economists  Miscellaneous social  scientists, including	166	Economists	166	Economists	
1815	Survey researchers	1810	researchers	1860	sociologists	166	Economists	169	Social scientists, n.e.c.	
1820	Psychologists	1820	Psychologists	1820	Psychologists	167	Psychologists	167	Psychologists	yes
1020	rsychologists	1620	rsychologists	1820	Miscellaneous social scientists, including	107	rsychologists	107	rsychologists	
1830	Sociologists	1830	Sociologists	1860	sociologists	168	Sociologists	169	Social scientists, n.e.c.	yes
	Urban and regional		Urban and regional		Urban and regional					
1840	planners	1840	planners	1840	planners	173	Urban planners	173	Urban planners	
1860	Miscellaneous social scientists and related workers	1860	Miscellaneous social scientists and related workers	1860	Miscellaneous social scientists, including sociologists	169	Social scientists, n.e.c.	169	Social scientists, n.e.c.	
1000	Agricultural and food	1000	Agricultural and food	1000	Agricultural and food	100	Josiai Joieridio, Ilielei	100	Josiai Jeieridio, Iliele.	
1900	science technicians	1900	science technicians	1900	science technicians	223	Biological technicians	223	Biological technicians	
1910	Biological technicians	1910	Biological technicians	1910	Biological technicians	223	Biological technicians	223	Biological technicians	
1920	Chemical technicians	1920	Chemical technicians	1920	Chemical technicians	224	Chemical technicians	224	Chemical technicians	
1930 <sup>†</sup>	Geological and petroleum technicians	1930 <sup>†</sup>	Geological and petroleum technicians	1930 <sup>†</sup>	Geological and petroleum technicians	225	Science technicians, n.e.c.	225	Science technicians, n.e.c.	
1040 <sup>†</sup>	Nu alamatan kari-i	1040 <sup>†</sup>	Nu alamataskii iii iii ii	1930 <sup>†</sup>	Geological and	225	Tachuisiana	225	Science technicians,	
1940 ′	Nuclear technicians	1940 '	Nuclear technicians	1930	petroleum technicians	235	Technicians, n.e.c.	225	n.e.c.	yes

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
1950 <sup>†</sup>	Social science research assistants	1960 <sup>†</sup>	Other life, physical, and social science technicians	1960 <sup>†</sup>	Miscellaneous life, physical, and social science technicians, including social science research assistants and nuclear technicians	214	Industrial engineering technicians	214	Industrial engineering technicians	
1965 <sup>†</sup>	Miscellaneous life, physical, and social science technicians	1960 <sup>†</sup>	Other life, physical, and social science technicians	1960 <sup>†</sup>	Miscellaneous life, physical, and social science technicians, including social science research assistants and nuclear technicians	214	Industrial engineering technicians	214	Industrial engineering technicians	
							Counselors, educational		Counselors, educational	
2000	Counselors	2000	Counselors	2000	Counselors	163	and vocational	163	and vocational	
2010	Social workers	2010	Social workers	2010	Social workers	174	Social workers	174	Social workers	
2015	Probation officers and correctional treatment specialists	2020	Miscellaneous community and social service specialists	2020	Miscellaneous community and social service specialists	465	Welfare service aides	465	Welfare service aides	
2016	Social and human service assistants	2020	Miscellaneous community and social service specialists	2020	Miscellaneous community and social service specialists	465	Welfare service aides	465	Welfare service aides	
2025	community and social service specialists, including health educators and community health	2020	Miscellaneous community and social	2020	Miscellaneous community and social	465	M. If	465	Malforn and in side	
2025	Workers	2020	service specialists	2020 2040	service specialists	465 176	Welfare service aides	465 176	Welfare service aides	
2040	Directors, religious activities and education	2040	Directors, religious activities and education	2040	Directors, religious activities and education	176	Clergy	176	Clergy	
	Religious workers, all		Religious workers, all		Religious workers, all					
2060	other	2060	other	2060	other Lawyers, and judges, magistrates, and other	176	Clergy	176	Clergy	
2100	Lawyers	2100	Lawyers	2100	judicial workers	178	Lawyers	178	Lawyers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
					Lawyers, and judges, magistrates, and other					
2105	Judicial law clerks Paralegals and legal	2100	Lawyers Paralegals and legal	2100	judicial workers Paralegals and legal	178	Lawyers	178	Lawyers	
2145	assistants	2140	assistants	2140	assistants	234	Legal assistants	234	Legal assistants	
2143	Miscellaneous legal	2140	Miscellaneous legal	2140	Miscellaneous legal	234	Legal assistants	234	Legal assistants	
2160	support workers	2150	support workers	2150	support workers	234	Legal assistants	234	Legal assistants	
							Postsecondary teachers,		Postsecondary teachers,	
2200	Postsecondary teachers	2200	Postsecondary teachers	2200	Postsecondary teachers	154	subject not specified Teachers,	154	subject not specified Teachers,	
	Preschool and		Preschool and		Dunashaaland		,		·	
2200		2200		2200	Preschool and	155	prekindergarten and	155	prekindergarten and	
2300	kindergarten teachers	2300	kindergarten teachers	2300	kindergarten teachers	155	kindergarten	155	kindergarten	
2310	Elementary and middle school teachers	2310	Elementary and middle school teachers	2310	Elementary and middle school teachers	156	Teachers, elementary school	156	Teachers, elementary school	
2310	Secondary school	2310	Secondary school	2310	Secondary school	130	Teachers, secondary	150	Teachers, secondary	
2320	teachers	2320	teachers	2320	teachers	157	school	157	school	
	Special education		Special education		Special education		Teachers, special		Teachers, special	
2330	teachers	2330	teachers	2330	teachers	158	education	158	education	
	Other teachers and		Other teachers and		Other teachers and					
2340	instructors	2340	instructors	2340	instructors	159	Teachers, n.e.c.	159	Teachers, n.e.c.	
2400	Archivists, curators, and museum technicians	2400	Archivists, curators, and museum technicians	2400	Archivists, curators, and museum technicians	165	Archivists and curators	165	Archivists and curators	
2430	Librarians	2430	Librarians	2430	Librarians	164	Librarians	164	Librarians	
2440	Library technicians	2440	Library technicians	2440	Library technicians	329	Library clerks	329	Library clerks	
2540	Teacher assistants	2540	Teacher assistants	2540	Teacher assistants	159	Teachers, n.e.c.	159	Teachers, n.e.c.	
	Other education,		Other education,		Other education,					
	training, and library		training, and library		training, and library					
2550	workers	2550	workers	2550	workers	159	Teachers, n.e.c.	159	Teachers, n.e.c.	
	Artists and related		Artists and related		Artists and related		Painters, sculptors, craft- artists, and artist		Painters, sculptors, craft- artists, and artist	
2600	workers	2600	workers	2600	workers	188	printmakers	188	printmakers	
2630	Designers	2630	Designers	2630	Designers	185	Designers	185	Designers	
2700	Actors	2700	Actors	2700	Actors	187	Actors and directors	187	Actors and directors	
2710	Producers and directors Athletes, coaches, umpires, and related	2710	Producers and directors Athletes, coaches, umpires, and related	2710	Producers and directors Athletes, coaches, umpires, and related		Actors and directors	187	Actors and directors	
2720	workers	2720	workers	2720	workers	199	Athletes	199	Athletes	
	Dancers and		Dancers and		Dancers and				_	
2740	choreographers	2740	choreographers	2740	choreographers	193	Dancers	193	Dancers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Musicians, singers, and		Musicians, singers, and		Musicians, singers, and		Musicians and		Musicians and	
2750	related workers Entertainers and	2750	related workers Entertainers and	2750	related workers Entertainers and	186	composers	186	composers	
	performers, sports and		performers, sports and		performers, sports and		A		A	
2760	related workers, all	2760	related workers, all	2760	related workers, all	404	Artists, performers, and	104	Artists, performers, and	
2760	other	2760	other	2760	other	194	related workers, n.e.c.	194	related workers, n.e.c.	
2800	Announcers News analysts,	2800	Announcers News analysts,	2800	Announcers News analysts,	198	Announcers	198	Announcers	
	reporters and		reporters and		reporters and					
2010	'	2810	'	2810	· ·	105	Editors and reporters	105	Editors and reporters	
2810	correspondents	2010	correspondents	2010	correspondents	195	Managers, marketing,	195	Managers, marketing,	
	Public relations		Public relations		Public relations		advertising, and public		advertising, and public	
2825	specialists	2820	specialists	2820	specialists	013	relations	013	relations	
2830	Editors	2830	Editors	2830	Editors	195	Editors and reporters	195	Editors and reporters	
2840	Technical writers	2840	Technical writers	2840	Technical writers	184	Technical writers	184	Technical writers	
2850	Writers and authors	2850	Writers and authors	2850	Writers and authors	183	Authors	183	Authors	
	Miscellaneous media		Miscellaneous media		Miscellaneous media					
	and communication		and communication		and communication		Artists, performers, and		Artists, performers, and	
2860	workers	2860	workers	2860	workers	194	related workers, n.e.c.	194	related workers, n.e.c.	
2900	Broadcast and sound engineering technicians and radio operators	2900	Broadcast and sound engineering technicians and radio operators	2900	engineering technicians and radio operators, and media and communication equipment workers, all other	228	Broadcast equipment operators	228	Broadcast equipment operators	
2910	Photographers	2910	Photographers	2910	Photographers	189	Photographers	189	Photographers	
2920	Television, video, and motion picture camera operators and editors	2920	Television, video, and motion picture camera operators and editors	2920	Television, video, and motion picture camera operators and editors	195	Editors and reporters	195	Editors and reporters	
20.52	Media and communication equipment workers, all	2055	Media and communication equipment workers, all	2000	engineering technicians and radio operators, and media and communication equipment workers, all	200	Broadcast equipment	222	Broadcast equipment	
2960	other	2960	other	2900	other	228	operators	228	operators	
2000	China and a	2000	Chi	2000	China na na ata	000	Health diagnosing	000	Health diagnosing	
3000	Chiropractors	3000	Chiropractors	3000	Chiropractors	089	practitioners, n.e.c.	089	practitioners, n.e.c.	
3010	Dentists Dietitians and	3010	Dentists Dietitians and	3010	Dentists Dietitians and	085	Dentists	085	Dentists	
3030	nutritionists	3030	nutritionists	3030	nutritionists	097	Dietitians	097	Dietitians	
3030	Optometrists		Optometrists	3030	Optometrists	097	Optometrists	087	Optometrists	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
3050	Pharmacists	3050	Pharmacists	3050	Pharmacists	096	Pharmacists	096	Pharmacists	
3060	Physicians and surgeons	3060	Physicians and surgeons	3060	Physicians and surgeons	084	Physicians	084	Physicians	
3110	Physician assistants	3110	Physician assistants	3110	Physician assistants	106	Physicians' assistants	106	Physicians' assistants	
3120	Podiatrists	3120	Podiatrists	3120	Podiatrists	088	Podiatrists	088	Podiatrists	
3140	Audiologists	3140	Audiologists	3140	Audiologists	104	Speech therapists	104	Speech therapists	
3150	Occupational therapists	3150	Occupational therapists	3150	Occupational therapists	099	Occupational therapists	099	Occupational therapists	
3160	Physical therapists	3160	Physical therapists	3160	Physical therapists	103	Physical therapists	103	Physical therapists	
3200	Radiation therapists	3200	Radiation therapists	3200	Radiation therapists	105	Therapists, n.e.c.	105	Therapists, n.e.c.	
3210	Recreational therapists	3210	Recreational therapists	3210	Recreational therapists	105	Therapists, n.e.c.	105	Therapists, n.e.c.	
3210	necreational therapists	3210	necreational therapists	3210	Recreational therapists	103	тпетарізіз, п.е.с.	103	merapists, m.e.e.	
3220	Respiratory therapists Speech-language	3220	Respiratory therapists Speech-language	3220	Respiratory therapists Speech-language	098	Respiratory therapists	098	Respiratory therapists	
3230	pathologists	3230	pathologists	3230	pathologists	104	Speech therapists	104	Speech therapists	
3235	Exercise physiologists	3240	Therapists, all other	3240	Therapists, all other	105	Therapists, n.e.c.	105	Therapists, n.e.c.	
3245	Therapists, all other	3240	Therapists, all other	3240	Therapists, all other	105	Therapists, n.e.c.	105	Therapists, n.e.c.	
3250	Veterinarians	3250	Veterinarians	3250	Veterinarians	086	Veterinarians	086	Veterinarians	
3255	Registered nurses	3130	Registered nurses	3130	Registered nurses	095	Registered nurses	095	Registered nurses	
3256	Nurse anesthetists	3130	Registered nurses	3130	Registered nurses	095	Registered nurses	095	Registered nurses	
3257	Nurse midwives	3130	Registered nurses	3130	Registered nurses	095	Registered nurses	095	Registered nurses	
3258	Nurse practitioners	3130	Registered nurses	3130	Registered nurses	095	Registered nurses	095	Registered nurses	
3260	Health diagnosing and treating practitioners, all other	3260	Health diagnosing and treating practitioners, all other	3260	Health diagnosing and treating practitioners, all other	089	Health diagnosing practitioners, n.e.c.	089	Health diagnosing practitioners, n.e.c.	
3200	Clinical laboratory	3200	Clinical laboratory	3200	Clinical laboratory	003	Clinical laboratory	003	Clinical laboratory	
	technologists and		technologists and		technologists and		technologists and		technologists and	
3300	technicians	3300	technicians	3300	technicians	203	technicians	203	technicians	
3310	Dental hygienists	3310	Dental hygienists	3310	Dental hygienists	204	Dental hygienists	204	Dental hygienists	
	Diagnostic related		Diagnostic related		Diagnostic related			İ		
	technologists and		technologists and		technologists and					
3320	technicians	3320	technicians	3320	technicians	206	Radiologic technicians	206	Radiologic technicians	
	Emergency medical		Emergency medical		Emergency medical					
	technicians and		technicians and		technicians and		Health technologists		Health technologists	
3400	paramedics	3400	paramedics	3400	paramedics	208	and technicians, n.e.c.	208	and technicians, n.e.c.	
	Health practitioner support technologists		Health diagnosing and treating practitioner		Health diagnosing and treating practitioner		Dental laboratory and medical appliance		Dental laboratory and medical appliance	
3420	and technicians	3410	support technicians	3410	"	678	technicians	678	technicians	
3420	and technicians	3410	support technicians	3410	support technicians	0/0	tecinicians	0/0	LECTIFICIALIS	

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	Licensed practical and		Licensed practical and		Licensed practical and					
2500	licensed vocational		licensed vocational	2522	licensed vocational		Licensed practical		Licensed practical	
3500	nurses Medical records and	3500	nurses Medical records and	3500	nurses Medical records and	207	nurses Health record	207	nurses Health record	
					health information					
2540	health information	2540	health information	2540		205	technologists and	205	technologists and	
3510	technicians	3510	technicians	3510	technicians	205	technicians	205	technicians	
3520	Opticians, dispensing	3520	Opticians, dispensing	3520	Opticians, dispensing	677	Optical goods workers	677	Optical goods workers	
3320	Miscellaneous health	3320	Miscellaneous health	3320	Miscellaneous health	0//	Optical goods workers	077	Optical goods workers	
	technologists and		technologists and		technologists and		Health technologists		Health technologists	
3535	technicians	3530	technicians	3530	technicians	208	and technicians, n.e.c.	208	and technicians, n.e.c.	
3333	tecimicians	3330	tecimicians	3330	tecimicians	200	and technicians, n.e.c.	200	and technicians, n.e.c.	
	Other healthcare		Other healthcare		Other healthcare					
	practitioners and		practitioners and		practitioners and		Health technologists		Health technologists	
3540	technical occupations	3540	technical occupations	3540	technical occupations	208	and technicians, n.e.c.	208	and technicians, n.e.c.	
3310	teenmear occupations	33 10	teennear occupations	33.10	teermear occupations	200	una teenmeians, meter	200	una teenmeians, me.e.	
	Nursing, psychiatric, and		Nursing, psychiatric, and		Nursing, psychiatric, and		Nursing aides, orderlies,		Nursing aides, orderlies,	
3600	home health aides	3600	home health aides	3600	home health aides	447	and attendants	447	and attendants	
	Occupational therapy		Occupational therapist		Occupational therapist					
3610	assistants and aides	3610	assistants and aides	3610	assistants and aides	099	Occupational therapists	099	Occupational therapists	
	Physical therapist		Physical therapist		Physical therapist					
3620	assistants and aides	3620	assistants and aides	3620	assistants and aides	103	Physical therapists	103	Physical therapists	
							Personal service		Personal service	
3630	Massage therapists	3630	Massage therapists	3630	Massage therapists	469	occupations, n.e.c.	469	occupations, n.e.c.	
3640	Dental assistants	3640	Dental assistants	3640	Dental assistants	445	Dental assistants	445	Dental assistants	
3645	Medical assistants	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	
3646	Medical transcriptionists	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	
3647	Pharmacy Aides	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	

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3648	Veterinary assistants and laboratory animal caretakers	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	
3649	Phlebotomists	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	
3655	Healthcare support workers, all other, including medical equipment preparers	3650	Medical assistants and other healthcare support occupations	3650	Medical assistants and other healthcare support occupations, except dental assistants	446	Health aides, except nursing	446	Health aides, except nursing	
3700	First-line supervisors of correctional officers	3700	First-line supervisors/managers of correctional officers	3700	First-line supervisors/managers of correctional officers	423	Sheriffs, bailiffs, and other law enforcement officers	423	Sheriffs, bailiffs, and other law enforcement officers	
3710	First-line supervisors of police and detectives	3710	First-line supervisors/managers of police and detectives First-line	3710	First-line supervisors/managers of police and detectives First-line	418	Police and detectives, public service	418	Police and detectives, public service	
3720	First-line supervisors of fire fighting and prevention workers First-line supervisors of	3720	supervisors/managers of fire fighting and prevention workers Supervisors, protective	3720	supervisors/managers of fire fighting and prevention workers Supervisors, protective	417	Firefighting occupations	417	Firefighting occupations	
3730 3740	protective service workers, all other Firefighters	3730 3740	service workers, all other  Fire fighters	3730 3740	service workers, all other  Fire fighters	415	Supervisors, guards Firefighting occupations	415 417	Supervisors, guards Firefighting occupations	
3750	Fire inspectors  Bailiffs, correctional	3750	Fire inspectors  Bailiffs, correctional	3750	Fire inspectors  Bailiffs, correctional	417	Firefighting occupations Sheriffs, bailiffs, and other law enforcement	417	Firefighting occupations Sheriffs, bailiffs, and other law enforcement	
3800	officers, and jailers	3800	officers, and jailers	3800	officers, and jailers	423	officers	423	officers	
3820	Detectives and criminal investigators	3820	Detectives and criminal investigators	3820	Detectives and criminal investigators	418	Police and detectives, public service Sheriffs, bailiffs, and	418	Police and detectives, public service Sheriffs, bailiffs, and	
3830	Fish and game wardens	3830	Fish and game wardens	3840 <sup>§</sup>	Miscellaneous law enforcement workers	423 <sup>§</sup>	other law enforcement officers	423 <sup>§</sup>	other law enforcement officers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Dayling onforcement		Dauling onforcement		A diagollar agent law		Sheriffs, bailiffs, and		Sheriffs, bailiffs, and	
3840 <sup>§</sup>	Parking enforcement workers	3840 <sup>§</sup>	Parking enforcement	3840 <sup>§</sup>	Miscellaneous law	423 <sup>§</sup>	other law enforcement	423 <sup>§</sup>	other law enforcement	
3840	Police and sheriff's	3840	workers Police and sheriff's	3840	enforcement workers	423	officers Police and detectives,	423	officers Police and detectives,	
3850	patrol officers	3850	patrol officers	3850	Police officers	418	public service	418	public service	
3030	Transit and railroad	3830	Transit and railroad	3830	T Office Officers	710	Police and detectives,	710	Police and detectives,	
3860	police	3860	police	3850	Police officers	418	public service	418	public service	
	ponde	3333	penee	0000	i enec ojjitera	.20	Protective service	.20	Protective service	
3900	Animal control workers	3900	Animal control workers	3900	Animal control workers	427	occupations, n.e.c.	427	occupations, n.e.c.	
	Private detectives and		Private detectives and		Private detectives and		Police and detectives,		Police and detectives,	
3910	investigators	3910	investigators	3910	investigators	418	public service	418	public service	
	Security guards and		Security guards and		Security guards and					
	gaming surveillance		gaming surveillance		gaming surveillance		Guards and police, exc.		Guards and police, exc.	
3930	officers	3920	officers	3920	officers	426	public service	426	public service	
3940	Crossing guards	3940	Crossing guards	3940	Crossing guards	425	Crossing guards	425	Crossing guards	
			Security guards and		Security guards and					
22.15	Transportation security		gaming surveillance		gaming surveillance		Guards and police, exc.		Guards and police, exc.	
3945	screeners Lifeguards and other	3920	officers	3920	officers	426	public service	426	public service	
	recreational, and all		Lifeguards and other		Lifeguards and other					
	other protective service		protective service		protective service		Protective service		Protective service	
3955	workers	3950	workers	3950	workers	427	occupations, n.e.c.	427	occupations, n.e.c.	
4000	Chefs and head cooks	4000	Chefs and head cooks	4000	Chefs and head cooks	436	Cooks	436	Cooks	
	Chero and head cooks		First-line		First-line		000.0			
	First-line supervisors of		supervisors/managers		supervisors/managers					
	food preparation and		of food preparation and		of food preparation and					
4010	serving workers	4010	serving workers	4010	serving workers	436	Cooks	436	Cooks	
4020	Cooks	4020	Cooks	4020	Cooks	436	Cooks	436	Cooks	
	Food preparation		Food preparation		Food preparation		Miscellaneous food		Miscellaneous food	
4030	workers	4030	workers	4030	workers	444	preparation occupations	444	preparation occupations	
4040	Bartenders	4040	Bartenders	4040	Bartenders	434	Bartenders	434	Bartenders	
	Combined food	13.0	Combined food	.5.0	Combined food					
	preparation and serving		preparation and serving		preparation and serving					
	workers, including fast		workers, including fast		workers, including fast		Kitchen workers, food		Kitchen workers, food	
4050	food	4050	food	4050	food	439	preparation	439	preparation	
	Counter attendants,		Counter attendants,		Counter attendants,					
	cafeteria, food		cafeteria, food		cafeteria, food					
	concession, and coffee		concession, and coffee		concession, and coffee		Waiters'/waitresses'		Waiters'/waitresses'	
4060	shop	4060	shop	4060	shop	443	assistants	443	assistants	
4110	Maitons andit	4110	Maitana andit	4110	Maitana andit	435	Maitana and	435	Maiton and	
4110	Waiters and waitresses Food servers,	4110	Waiters and waitresses Food servers,	4110	Waiters and waitresses Food servers,	435	Waiters and waitresses Waiters'/waitresses'	435	Waiters and waitresses Waiters'/waitresses'	
4120	nonrestaurant	4120	nonrestaurant	4120	nonrestaurant	443	assistants	443	assistants	
4120	noniestaurdilt	4120	nonestaurdilt	4120	noncestaurant	443	้ ขววเวเซเเเว	443	สววเวเสทเว	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Dining room and cafeteria attendants		Dining room and cafeteria attendants		Miscellaneous food preparation and serving related workers including dining room and cafeteria attendants and		Waiters'/waitresses'		Waiters'/waitresses'	
4130	and bartender helpers	4130	and bartender helpers	4130	bartender helpers	443	assistants	443	assistants	
4140	Dishwashers Hosts and hostesses,	4140	Dishwashers Hosts and hostesses,	4140	Dishwashers Hosts and hostesses,	444	Miscellaneous food preparation occupations	444	Miscellaneous food preparation occupations	
4150	restaurant, lounge, and coffee shop	4150	restaurant, lounge, and coffee shop	4150	restaurant, lounge, and coffee shop	469	Personal service occupations, n.e.c.	469	Personal service occupations, n.e.c.	
	Food preparation and serving related workers,		Food preparation and serving related workers,		Miscellaneous food preparation and serving related workers including dining room and cafeteria attendants and		Miscellaneous food		Waiters'/waitresses'	
4160	all other	4160	all other	4130	bartender helpers	444	occupations	443	assistants	yes
	First-line supervisors of housekeeping and		First-line supervisors/managers of housekeeping and		First-line supervisors/managers of housekeeping and		Supervisors, cleaning and building service		Supervisors, cleaning and building service	
4200	janitorial workers	4200	janitorial workers	4200	janitorial workers	448	workers	448	workers	
	First-line supervisors of landscaping, lawn service, and groundskeeping		supervisors/managers of landscaping, lawn service, and groundskeeping		supervisors/managers of landscaping, lawn service, and groundskeeping		Supervisors, related		Supervisors, related	
4210	workers Janitors and building	4210	workers Janitors and building	4210	workers Janitors and building	485	agricultural occupations	485	agricultural occupations	
4220	cleaners	4220	cleaners	4220	cleaners	453	Janitors and cleaners	453	Janitors and cleaners	
4230 4240	Maids and housekeeping cleaners Pest control workers	4230 4240	Maids and housekeeping cleaners Pest control workers	4230 4240	Maids and housekeeping cleaners Pest control workers	405 455	Housekeepers and butlers Pest control occupations	405 455	Housekeepers and butlers Pest control occupations	
4250	Grounds maintenance workers		Grounds maintenance workers	4250	Grounds maintenance workers	486	Groundskeepers and gardeners, except farm	486	Groundskeepers and gardeners, except farm	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
			First-line		First-line					
	First-line supervisors of		supervisors/managers		supervisors/managers		Managers and		Managers and	
4300	gaming workers	4300	of gaming workers	4300	of gaming workers	022	administrators, n.e.c.	022	administrators, n.e.c.	
	First line supervisors of		First-line		First-line					
	First-line supervisors of		supervisors/managers		supervisors/managers					
	personal service		of personal service		of personal service		Supervisors, personal		Supervisors, personal	
4320	workers	4320	workers	4320	workers	456	service occupations	456	service occupations	
4340	Animal trainers Nonfarm animal	4340	Animal trainers Nonfarm animal	4340	Animal trainers Nonfarm animal	479	Farm workers Animal caretakers,	479	Farm workers Animal caretakers,	
4250		4250		4350		407	· · · · · · · · · · · · · · · · · · ·	407	·	
4350	caretakers	4350	caretakers	4350	caretakers	487	except farm	487	except farm	
	Gaming services		Gaming services		Gaming services		Attendants, amusement		Attendants, amusement	
4400	workers	4400	workers	4400	workers	459	and recreation facilities	459	and recreation facilities	
4400	Motion picture	4400	Motion picture	4400	Motion picture	433	Motion picture	433	Motion picture	
4410	projectionists	4410	projectionists	4410	projectionists	773	projectionists	773	projectionists	
7710	Ushers, lobby	4410	Ushers, lobby	4410	Ushers, lobby	773	projectionists	773	projectionists	
	attendants, and ticket		attendants, and ticket		attendants, and ticket					
4420	takers	4420	takers	4420	takers	462	Ushers	462	Ushers	
	Miscellaneous		Miscellaneous		Miscellaneous					
	entertainment		entertainment		entertainment					
	attendants and related		attendants and related		attendants and related		Attendants, amusement		Attendants, amusement	
4430	workers	4430	workers	4430	workers	459	and recreation facilities	459	and recreation facilities	
	Embalmers and funeral						Personal service		Personal service	
4460	attendants	4460	Funeral service workers	4460	Funeral service workers	469	occupations, n.e.c.	469	occupations, n.e.c.	
	Morticians, undertakers,									
4465	and funeral directors	0320	Funeral directors	0320	Funeral directors	019	Funeral directors	019	Funeral directors	
4500	Barbers	4500	Barbers	4500	Barbers	457	Barbers	457	Barbers	
	Hairdressers,		Hairdressers,		Hairdressers,					
	hairstylists, and		hairstylists, and		hairstylists, and		Hairdressers and		Hairdressers and	
4510	cosmetologists	4510	cosmetologists	4510	cosmetologists	458	cosmetologists	458	cosmetologists	
							<u>.</u>			
4500	Miscellaneous personal	4500	Miscellaneous personal	4500	Miscellaneous personal	4	Hairdressers and	450	Hairdressers and	
4520	appearance workers	4520	appearance workers Baggage porters,	4520	appearance workers	458	cosmetologists	458	cosmetologists	
	Baggage porters,				Baggage porters,		Daggago portare and		Daggago portare and	
4530	bellhops, and	4530	bellhops, and	4530	bellhops, and	464	Baggage porters and	464	Baggage porters and	
4530	concierges	4530	concierges	4530	concierges	464	bellhops	464	bellhops	
4540	Tour and travel guides	4540	Tour and travel guides	4540	Tour and travel guides	461	Guides	461	Guides	
4540	Tour and traver guides	4540	Tour and traver guides	4340	Tour and travel guides	401	Child care workers,	401	Child care workers,	
4600	Childcare workers	4600	Child care workers	4600	Child care workers	468	n.e.c.	468	n.e.c.	
+000	Cimucate WOINEIS	7000	Cima care workers		Cima care workers	700	11.0.0.	700	11.0.0.	
			Personal and home care		Personal and home care		Nursing aides, orderlies,		Nursing aides, orderlies,	
			reisonal and nome care		IF CI 30 Hai allu Hollic Lare				HNULSHIE GIUCS, DIUCHIES, I	

2010		2002		Less		1990		Less		Change in
	2010 Census Label	Census	2002 Census Label	Detailed	Less Detailed	Census	1990 Census Label	Detailed	Less Detailed	Detail Alters
Census	2010 Census Labei		2002 Census Labei		2002 Label		1990 Census Labei		1990 Label	1990
Code		Code		2002 Code		Code		1990 Code		Assignment
	Recreation and fitness		Recreation and fitness		Recreation and fitness					
4620	workers	4620	workers	4620	workers	175	Recreation workers	175	Recreation workers	
							Child care workers,		Child care workers,	
4640	Residential advisors	4640	Residential advisors	4640	Residential advisors	468	n.e.c.	468	n.e.c.	
	Personal care and		Personal care and		Personal care and					
	service workers, all		service workers, all		service workers, all		Personal service		Personal service	
4650	other	4650	other	4650	other	469	occupations, n.e.c.	469	occupations, n.e.c.	
			First-line		First-line		Supervisors and		Supervisors and	
	Finat line aumamulaana af		supervisors/managers		supervisors/managers		· ·		·	
4700	First-line supervisors of	4700	, ,	4700	, ,	242	proprietors, sales	242	proprietors, sales	
4700	retail sales workers	4700	of retail sales workers First-line	4700	of retail sales workers First-line	243	occupations	243	occupations	
			supervisors/managers		supervisors/managers		Supervisors and		Supervisors and	
	First-line supervisors of		of non-retail sales		of non-retail sales		proprietors, sales		proprietors, sales	
4710	non-retail sales workers	4710	workers	4710	workers	243	occupations	243	occupations	
4720	Cashiers	4720	Cashiers	4720	Cashiers	276	Cashiers	276	Cashiers	
4720	Counter and rental	4720	Counter and rental	4720	Counter and rental	270	Sales workers, other	270	Sales workers, other	
4740	clerks	4740	clerks	4740	clerks	274	commodities	274	commodities	
17 10	CICINO	17 10	CICINO	17.10	CICINO		Sales workers, other	27.	Sales workers, other	
4750	Parts salespersons	4750	Parts salespersons	4750	Parts salespersons	274	commodities	274	commodities	
4760	Retail salespersons	4760	Retail salespersons	4760	Retail salespersons	275	Sales counter clerks	275	Sales counter clerks	
	·		·		·					
							Advertising and related		Advertising and related	
4800	Advertising sales agents	4800	Advertising sales agents	4800	Advertising sales agents	256	sales occupations	256	sales occupations	
							Insurance sales		Insurance sales	
4810	Insurance sales agents	4810	Insurance sales agents	4810	Insurance sales agents	253	occupations	253	occupations	
	Securities, commodities,		Securities, commodities,		Securities, commodities,		Securities and financial		Securities and financial	
	and financial services		, ,		' '					
4020		4000	and financial services	4000	and financial services	255	services sales	355	services sales	
4820	sales agents	4820	sales agents	4820	sales agents	255	occupations	255	occupations	
							Transportation ticket		Transportation ticket	
4830	Travel agents	4830	Travel agents	4830	Travel agents	318	and reservation agents	318	and reservation agents	
	Sales representatives,		Sales representatives,		Sales representatives,		Sales workers, other		Sales workers, other	
4840	services, all other	4840	services, all other	4840	services, all other	274	commodities	274	commodities	
	Sales representatives,		Sales representatives,		Sales representatives,					
	wholesale and		wholesale and	_	wholesale and		Sales workers, other		Sales workers, other	
4850	manufacturing	4850	manufacturing	4850	manufacturing	274	commodities	274	commodities	
	Models, demonstrators,		Models, demonstrators,		Models, demonstrators,		Demonstrators, promoters and models,		Demonstrators, promoters and models,	
4000	1 ' '	4000		4000		202	'	202	<b>'</b>	
4900	and product promoters Real estate brokers and	4900	and product promoters Real estate brokers and	4900	and product promoters Real estate brokers and	283	sales Real estate sales	283	sales Real estate sales	
4020		4020		4020		254		254		
4920	sales agents	4920	sales agents	4920	sales agents	254	occupations	254	occupations	
4930	Sales engineers	4930	Sales engineers	4930	Sales engineers		Sales engineers	258	Sales engineers	

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4940	Telemarketers	4940	Telemarketers	4940	Telemarketers	274	Sales workers, other commodities	274	Sales workers, other commodities	
4940	Door-to-door sales	4940	Door-to-door sales	4940	Door-to-door sales	2/4	commodities	2/4	commountes	
	workers, news and		workers, news and		workers, news and					
	street vendors, and		street vendors, and		street vendors, and		Street and door-to-door		Street and door-to-door	
4950	related workers	4950	related workers	4950	related workers	277	sales workers	277	sales workers	
	Sales and related		Sales and related		Sales and related		Sales workers, other		Sales workers, other	
4965	workers, all other	4960	workers, all other	4960	workers, all other	274	commodities	274	commodities	
			First-line		First-line					
	First-line supervisors of		supervisors/managers		supervisors/managers					
	office and		of office and		of office and					
	administrative support		administrative support		administrative support		Supervisors, general		Supervisors, general	
5000	workers	5000	workers	5000	workers	303	office	303	office	
	Switchboard operators,		Switchboard operators,		Switchboard operators,					
	including answering		including answering		including answering					
5010	service	5010	service	5010	service	348	Telephone operators	348	Telephone operators	
5020	Telephone operators	5020	Telephone operators	5020	Telephone operators	348	Telephone operators	348	Telephone operators	
	Communications		Communications		Communications		Other telecom		Other telecom	
	equipment operators,		equipment operators,		equipment operators,			‡		
5030	all other	5030	all other	5030	all other	349 <sup>‡</sup>	operators <sup>‡</sup>	349 <sup>‡</sup>	operators <sup>‡</sup>	
F400	Bill and account	F400	Bill and account	5400	Bill and account	270	Bill and account	270	Bill and account	
5100	collectors	5100	collectors Billing and posting	5100	collectors Billing and posting	378	collectors Billing, posting, and	378	collectors Billing, posting, and	
	Billing and posting		clerks and machine		clerks and machine		calculating machine		calculating machine	
5110	clerks	5110		5110		344	operators	344	operators	
2110	Bookkeeping,	3110	operators Bookkeeping,	3110	operators Bookkeeping,	344	Bookkeepers,	344	Bookkeepers,	
	accounting, and		accounting, and		accounting, and		accounting, and		accounting, and	
5120	auditing clerks	5120	auditing clerks	5120	auditing clerks	337	auditing clerks	337	auditing clerks	
3120	Bookkeeping,	3120	Bookkeeping,	3120	Bookkeeping,	337	Bookkeepers,	337	Bookkeepers,	
	accounting, and		accounting, and		accounting, and		accounting, and		accounting, and	
5120	auditing clerks	5120	auditing clerks	5120	auditing clerks	337	auditing clerks	337	auditing clerks	
5130	Gaming cage workers		Gaming cage workers	5130	Gaming cage workers	276	Cashiers	276	Cashiers	
	Payroll and timekeeping		Payroll and timekeeping		Payroll and timekeeping		Payroll and timekeeping		Payroll and timekeeping	
5140	clerks	5140	clerks	5140	clerks	338	clerks	338	clerks	
							Stock and inventory		Stock and inventory	
5150	Procurement clerks	5150	Procurement clerks	5150	Procurement clerks	365	clerks	365	clerks	
5160	Tellers	5160	Tellers	5160	Tellers	383	Bank tellers	383	Bank tellers	
					Miscellaneous office					
					and administrative					
			Office and		support workers					
	Financial clerks, all		administrative support		including desktop		Administrative support		Administrative support	
5165	other	5930	workers, all other	5930	publishers	389	occupations, n.e.c.	389	occupations, n.e.c.	
5200	Brokerage clerks	5200	Brokerage clerks	5200	Brokerage clerks	336	Records clerks	336	Records clerks	

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5210	Correspondence clerks	5210	Correspondence clerks	5350	Correspondent clerks and order clerks	326	Correspondence clerks	326	Correspondence clerks	
5220	Court, municipal, and license clerks	5220	Court, municipal, and license clerks	5220	Court, municipal, and license clerks	389	Administrative support occupations, n.e.c.	389	Administrative support occupations, n.e.c.	
5230	Credit authorizers, checkers, and clerks	5230	Credit authorizers, checkers, and clerks	5230	Credit authorizers, checkers, and clerks	316	Interviewers	316	Interviewers	
5240	Customer service representatives	5240	Customer service representatives	5240	Customer service representatives	376	Investigators and adjusters, except insurance	376	Investigators and adjusters, except insurance	
	Eligibility interviewers,		Eligibility interviewers,	- 19	Eligibility interviewers,		Eligibility clerks, social		Eligibility clerks, social	
5250	government programs	5250	government programs	5250	government programs	377	welfare	377	welfare	
5260	File Clerks	5260	File clerks	5260	File clerks	335	File clerks	335	File clerks	
	Hotel, motel, and resort		Hotel, motel, and resort		Hotel, motel, and resort					
5300	desk clerks	5300	desk clerks	5300	desk clerks	317	Hotel clerks	317	Hotel clerks	
	Interviewers, except		Interviewers, except		Interviewers, except					
5310	eligibility and loan	5310	eligibility and loan	5310	eligibility and loan	316	Interviewers	316	Interviewers	
	Library assistants,		Library assistants,		Library assistants,					
5320	clerical	5320	clerical	5320	clerical	329	Library clerks	329	Library clerks	
					<u> </u>		Investigators and		Investigators and	
	Loan interviewers and		Loan interviewers and		Loan interviewers and		adjusters, except		adjusters, except	
5330	clerks		clerks	5330	clerks	376	insurance	376	insurance	
5340	New accounts clerks	5340	New accounts clerks	5340	New accounts clerks	316	Interviewers	316	Interviewers	
5350	Order clerks	5350	Order clerks	5350	Correspondent clerks and order clerks	326	Correspondence clerks	326	Correspondence clerks	
5360	Human resources assistants, except payroll and timekeeping	5360	Human resources assistants, except payroll and timekeeping	5360	Human resources assistants, except payroll and timekeeping	328	Personnel clerks, except payroll and timekeeping	328	Personnel clerks, except payroll and timekeeping	
5400	Receptionists and information clerks	5400	Receptionists and information clerks	5400	Receptionists and information clerks	319	Receptionists	319	Receptionists	
	Reservation and transportation ticket		Reservation and transportation ticket		Reservation and transportation ticket		Transportation ticket		Transportation ticket	
5410	agents and travel clerks	5410	agents and travel clerks	5410	agents and travel clerks	318	and reservation agents	318	and reservation agents	
	Information and record		Information and record		Information and record					
5420	clerks, all other	5420	clerks, all other	5420	clerks, all other	336	Records clerks	336	Records clerks	
FF00	Course and for the course	FF00	C	FF00	Cours and &	26.4	Traffic, shipping, and	20.	Traffic, shipping, and	
5500	Cargo and freight agents Couriers and	5500	Cargo and freight agents Couriers and	5500	Cargo and freight agents Couriers and	364	receiving clerks	364	receiving clerks	
FF40		FF40		FF40		257	N. 4 a a a a a a a a a	257	Massanass	
5510	messengers	5510	messengers	5510	messengers	357	Messengers	357	Messengers	
5520	Dispatchers	5520	Dispatchers	5520	Dispatchers	359	Dispatchers	359	Dispatchers	

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5530	Meter readers, utilities	5530	Meter readers, utilities	5530	Meter readers, utilities	366	Meter readers	366	Meter readers	
							Postal clerks, exc. mail		Postal clerks, exc. mail	
5540	Postal service clerks	5540	Postal service clerks	5540	Postal service clerks	354	carriers	354	carriers	
	Postal service mail		Postal service mail		Postal service mail		Mail carriers, postal		Mail carriers, postal	
5550	carriers	5550	carriers	5550	carriers	355	service	355	service	
	Postal service mail		Postal service mail		Postal service mail					
	sorters, processors, and		sorters, processors, and		sorters, processors, and		Mail preparing and		Mail preparing and	
	processing machine		processing machine		processing machine		paper handling machine		paper handling machine	
5560	operators	5560	operators	5560	operators	346	operators	346	operators	
	Production, planning,		Production, planning,		Production, planning,					
5600	and expediting clerks	5600	and expediting clerks	5600	and expediting clerks	373	Expediters	373	Expediters	
	Shipping, receiving, and		Shipping, receiving, and		Shipping, receiving, and		Traffic, shipping, and		Traffic, shipping, and	
5610	traffic clerks	5610	traffic clerks	5610	traffic clerks	364	receiving clerks	364	receiving clerks	
	Stock clerks and order		Stock clerks and order		Stock clerks and order		Stock and inventory		Stock and inventory	
5620	fillers	5620	fillers	5620	fillers	365	clerks	365	clerks	
5630	Weighers, measurers, checkers, and samplers, recordkeeping	5630	Weighers, measurers, checkers, and samplers, recordkeeping	5630	Weighers, measurers, checkers, and samplers, recordkeeping	368	Weighers, measurers, checkers and samplers	368	Weighers, measurers, checkers and samplers	
5700 5800	Secretaries and administrative assistants	5700 5800	Secretaries and administrative assistants	5700 5800	Secretaries and administrative assistants	313 308	Secretaries	313 308	Secretaries	
5810	Computer operators  Data entry keyers	5810	Computer operators  Data entry keyers	5810	Computer operators  Data entry keyers	385	Computer operators  Data-entry keyers	308	Computer operators  Data-entry keyers	
3610	Word processors and	3610	Word processors and	3610	Word processors and	363	Data-entry keyers	363	Data-entry keyers	
5820	typists	5820	typists	5820	typists	315	Typists	315	Typists	
5830	Desktop publishers	5830	Desktop publishers	5930	and administrative support workers including desktop publishers	315	Typists Insurance adjusters,	389	Administrative support occupations, n.e.c.	yes
	In accordance a latines and		In accordance also as and		lu accura u a a alaima a a u al		, ,			
E040	Insurance claims and	F040	Insurance claims and	E0.40	Insurance claims and	275	examiners, and	275	examiners, and	
5840	Mail clerks and mail	5840	Mail clerks and mail	5840	Mail clerks and mail	375	investigators	375	investigators	
	machine operators,		machine operators,		machine operators,		Mail clerks, exc. postal		Mail clerks, exc. postal	
5850	except postal service	5850	except postal service	5850	except postal service	356	service	356	service	
5860	Office clerks, general	5860	Office clerks, general	5860	Office clerks, general	379	General office clerks	379	General office clerks	
	Office machine		Office machine		Office machine		0.00		0.00	
	operators, except		operators, except	=0	operators, except		Office machine		Office machine	
5900	computer	5900	computer	5900	Computer	347	operators, n.e.c.	347	operators, n.e.c.	
F040	Proofreaders and copy	F040	Proofreaders and copy	F040	Proofreaders and copy	204	Due of wood or -	204	Due of wood out	
5910	markers	5910	markers	5910	markers	384	Proofreaders	384	Proofreaders	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
5920	Statistical assistants	5920	Statistical assistants	5920	Statistical assistants	386	Statistical clerks	386	Statistical clerks	
5940	Office and administrative support workers, all other	5930	Office and administrative support workers, all other First-line	5930	and administrative support workers including desktop publishers First-line	389	Administrative support occupations, n.e.c.	389	Administrative support occupations, n.e.c.	
6005	First-line supervisors of farming, fishing, and forestry workers	6000	supervisors/managers of farming, fishing, and forestry workers	6000	supervisors/managers of farming, fishing, and forestry workers	496	Timber cutting and logging occupations Inspectors, agricultural	496	Timber cutting and logging occupations Inspectors, agricultural	
6010	Agricultural inspectors	6010	Agricultural inspectors	6010	Agricultural inspectors	489	products	489	products	
6020	4.5	6020	Astronolius	6050	Miscellaneous agricultural workers including animal	475	Managers, farms,	470	5	
6020	Animal breeders Graders and sorters,	6020	Animal breeders Graders and sorters,	6050	breeders Graders and sorters,	475	except horticultural Graders and sorters,	479	Farm workers Graders and sorters,	yes
6040	agricultural products	6040	agricultural products	6040	agricultural products  Miscellaneous	488	agricultural products	488	agricultural products	
	Miscellaneous		Miscellaneous		agricultural workers including animal					
6050	agricultural workers	6050	agricultural workers	6050	breeders	479	Farm workers	479	Farm workers	
C100	Fishers and related	C100	Fishers and related	C100	Fishing and hunting	498	Ciah ara	498	Fishors	
6100	fishing workers	6100	fishing workers	6100	workers Fishing and hunting	498	Fishers	490	Fishers	
6110	Hunters and trappers	6110	Hunters and trappers	6100	workers	498	Fishers	498	Fishers	
	Forest and conservation		Forest and conservation		Forest and conservation		Timber cutting and		Timber cutting and	
6120	workers	6120	workers	6120	workers	496	logging occupations	496	logging occupations	
							Timber cutting and		Timber cutting and	
6130	Logging workers	6130	Logging workers First-line	6130	Logging workers First-line	496	logging occupations	496	logging occupations	
	First-line supervisors of construction trades and		supervisors/managers of construction trades		supervisors/managers of construction trades		Supervisors,		Supervisors,	
6200	extraction workers	6200	and extraction workers	6200	and extraction workers	558	construction, n.e.c.	558	construction, n.e.c.	
6210	Boilermakers Brickmasons,	6210	Boilermakers Brickmasons,	6210	Boilermakers Brickmasons,	643	Boilermakers	643	Boilermakers	
	blockmasons, and		blockmasons, and		blockmasons, and		Brickmasons and		Brickmasons and	
6220	stonemasons	6220	stonemasons	6220	stonemasons	563	stonemasons	563	stonemasons	
6230	Carpenters	6230	Carpenters	6230	Carpenters	567	Carpenters	567	Carpenters	
62.40	Carpet, floor, and tile	62.40	Carpet, floor, and tile	62.40	Carpet, floor, and tile	F.63	Brickmasons and	F.63	Brickmasons and	
6240	installers and finishers	6240	installers and finishers	6240	installers and finishers	563	stonemasons	563	stonemasons	

2010		2002		Less	Less Detailed	1990		Less	Less Detailed	Change in Detail Alters
Census	2010 Census Label	Census	2002 Census Label	Detailed	2002 Label	Census	1990 Census Label	Detailed	1990 Label	1990
Code		Code		2002 Code	2002 Label	Code		1990 Code	1550 Label	Assignment
	Cement masons,		Cement masons,		Cement masons,				<u>                                   </u>	71331giiiiieiit
	concrete finishers, and		concrete finishers, and		concrete finishers, and		Concrete and terrazzo		Concrete and terrazzo	
6250	terrazzo workers	6250	terrazzo workers	6250	terrazzo workers	588	finishers	588	finishers	
6260	Construction laborers	6260	Construction laborers	6260	Construction laborers	869	Construction laborers	869	Construction laborers	
0200	Paving, surfacing, and	0200	Paving, surfacing, and	0200	Paving, surfacing, and	809	Paving, surfacing, and	009	Paving, surfacing, and	
	tamping equipment		tamping equipment		tamping equipment		tamping equipment		tamping equipment	
6300	operators	6300	operators	6300	operators	594	operators	594	operators	
0300	operators	0300	operators	0300	operators	334	operators	334	operators	
					Construction equipment					
					operators except					
					paving, surfacing, and					
					tamping equipment		Construction trades,			
6310	Pile-driver operators	6310	Pile-driver operators	6320	operators	599	n.e.c.	844	Operating engineers	yes
0010	r ne arrer operators	0020	r ne arrer operators	5525	operators			0	pperating engineers	700
					Construction equipment					
					operators except					
	Operating engineers		Operating engineers		paving, surfacing, and					
	and other construction		and other construction		tamping equipment					
6320	equipment operators	6320	equipment operators	6320	operators	844	Operating engineers	844	Operating engineers	
	Drywall installers,		Drywall installers,		Drywall installers,					
	ceiling tile installers, and		ceiling tile installers, and		ceiling tile installers, and					
6330	tapers	6330	tapers	6330	tapers	573	Drywall installers	573	Drywall installers	
6355	Electricians	6350	Electricians	6350	Electricians	575	Electricians	575	Electricians	
6360	Glaziers	6360	Glaziers	6360	Glaziers	589	Glaziers	589	Glaziers	
6400	Insulation workers	6400	Insulation workers	6400	Insulation workers	593	Insulation workers	593	Insulation workers	
•										
	Painters, construction		Painters, construction		Painters, construction		Painters, construction		Painters, construction	
6420	and maintenance	6420	and maintenance	6420	and maintenance	579	and maintenance	579	and maintenance	
6430	Paperhangers	6430	Paperhangers	6430	Paperhangers	583	Paperhangers	583	Paperhangers	
	Pipelayers, plumbers,		Pipelayers, plumbers,		Pipelayers, plumbers,					
	pipefitters, and		pipefitters, and		pipefitters, and		Plumbers, pipefitters,		Plumbers, pipefitters,	
6440	steamfitters	6440	steamfitters	6440	steamfitters	585	and steamfitters	585	and steamfitters	
	Plasterers and stucco		Plasterers and stucco		Plasterers and stucco		<u></u>		<u></u>	
6460	masons	6460	masons	6460	masons	584	Plasterers	584	Plasterers	
	Reinforcing iron and		Reinforcing iron and		Reinforcing iron and		Structural metal		Structural metal	
6500	rebar workers	6500	rebar workers	6500	rebar workers	597	workers	597	workers	
6515	Roofers	6510	Roofers	6510	Roofers	595	Roofers	595	Roofers	
6526		6526		6520		F06	Sheetmetal duct	F06	Sheetmetal duct	
6520	Sheet metal workers	6520	Sheet metal workers	6520	Sheet metal workers	596	installers	596	installers	
6530	Structural iron and steel	CESS	Structural iron and steel	CE22	Structural iron and steel	F07	Structural metal	F07	Structural metal	
6530	workers	6530	workers	6530	workers	597	workers	597	workers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
					IVIIscellaneous					
					construction workers					
			Miscellaneous		including septic tank					
	Solar photovoltaic		construction and		servicers and sewer pipe		Construction trades,		Construction trades,	
6540	installers	6760	related workers	6760	cleaners	599	n.e.c.	599	n.e.c.	
6600	Helpers, construction	6600	Helpers, construction	6600	Helpers, construction	000	Helpers, construction	000	Helpers, construction	
6600	trades Construction and	6600	trades Construction and	6600	trades Construction and	866	trades	866	trades	
6660	building inspectors	6660	building inspectors	6660	building inspectors	035	Construction inspectors	035	Construction inspectors	
0000	Elevator installers and	0000	Elevator installers and	0000	Elevator installers and	033	Elevator installers and	033	Elevator installers and	
6700	repairers	6700	repairers	6700	repairers	543	repairers	543	repairers	
2.00				2.00	- p	0	Construction trades,	5	Construction trades,	
6710	Fence erectors	6710	Fence erectors	6710	Fence erectors	599	n.e.c.	599	n.e.c.	
	Hazardous materials		Hazardous materials		Hazardous materials					
6720	removal workers	6720	removal workers	6720	removal workers	593	Insulation workers	593	Insulation workers	
	Highway maintenance		Highway maintenance		Highway maintenance					
6730	workers	6730	workers	6730	workers	869	Construction laborers	869	Construction laborers	
	Rail-track laying and		Rail-track laying and		Rail-track laying and		 		 	
6740	maintenance	6740	maintenance	6740	maintenance	000	Laborers, except	000	Laborers, except	
6740	equipment operators	6740	equipment operators	6740	equipment operators iviisceiianeous	889	construction	889	construction	
					construction workers					
					including septic tank					
	Septic tank servicers		Septic tank servicers		servicers and sewer pipe		Laborers, except		Construction trades,	
6750	and sewer pipe cleaners	6750	and sewer pipe cleaners	6760	cleaners	889	construction	599	n.e.c.	ves
					iviisceiianeous					
					construction workers					
	Miscellaneous		Miscellaneous		including septic tank					
	construction and		construction and		servicers and sewer pipe		Construction trades,		Construction trades,	
6765	related workers	6760	related workers	6760	cleaners	599	n.e.c.	599	n.e.c.	
					Derrick, rotary drill, and					
	Derrick, rotary drill, and		Derrick, rotary drill, and		service unit operators,					
	service unit operators,		service unit operators,		and roustabouts, oil,					
6800	oil, gas, and mining	6800	oil, gas, and mining	6800	gas, and mining	614	Drillers, oil well	614	Drillers, oil well	
0000	Earth drillers, except oil	0000	Earth drillers, except oil	0000	Earth drillers, except oil	014	Dimers, on Well	014	Dimers, on Well	
6820	and gas	6820	and gas	6820	and gas	598	Drillers, earth	598	Drillers, earth	
	Explosives workers,		Explosives workers,		Explosives workers,		, .		, .	
	ordnance handling		ordnance handling		ordnance handling					
6830	experts, and blasters	6830	experts, and blasters	6830	experts, and blasters	615	Explosives workers	615	Explosives workers	
	Mining machine		Mining machine		Mining machine		Mining machine		Mining machine	
6840	operators	6840	operators	6840	operators	616	operators	616	operators	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
6910	Roof bolters, mining	6910	Roof bolters, mining	6940	Miscellaneous extraction workers including roof bolters and helpers	617	Mining occupations, n.e.c.	617	Mining occupations, n.e.c.	
	Roustabouts, oil and		Roustabouts, oil and		Derrick, rotary drill, and service unit operators, and roustabouts, oil,					
6920	gas	6920	gas Ualagra puturation	6800	gas, and mining Miscellaneous extraction workers	614	Drillers, oil well	614	Drillers, oil well	
6930	Helpersextraction workers	6930	Helpersextraction workers	6940	including roof bolters and helpers Miscellaneous extraction workers	869	Construction laborers	617	Mining occupations, n.e.c.	yes
6940	Other extraction workers	6940	Other extraction workers	6940	including roof bolters and helpers	617	Mining occupations, n.e.c.	617	Mining occupations, n.e.c.	
7000	First-line supervisors of mechanics, installers, and repairers	7000	First-line supervisors/managers of mechanics, installers, and repairers	7000	First-line supervisors/managers of mechanics, installers, and repairers	503	Supervisors, mechanics and repairers	503	Supervisors, mechanics and repairers	
7010	Computer, automated teller, and office machine repairers Radio and	7010	Computer, automated teller, and office machine repairers	7010	Computer, automated teller, and office machine repairers Radio and	525	Data processing equipment repairers	525	Data processing equipment repairers	
7020	telecommunications equipment installers and repairers	7020	telecommunications equipment installers and repairers	7020	telecommunications equipment installers and repairers	527	Telephone line installers and repairers	527	Telephone line installers and repairers	
7030	Avionics technicians	7030	Avionics technicians	7030	Avionics technicians	533	Miscellaneous electrical and electronic equipment repairers	533	Miscellaneous electrical and electronic equipment repairers	
7040	Electric motor, power tool, and related repairers	7040	Electric motor, power tool, and related repairers	7040	Electric motor, power tool, and related repairers	577	Electrical power installers and repairers	577	Electrical power installers and repairers	
7050	electronics installers and repairers, transportation equipment	7050	electronics installers and repairers, transportation equipment	7100	electronics repairers, transportation equipment, and industrial and utility	533	Miscellaneous electrical and electronic equipment repairers	523	Electronic repairers, communications and industrial equipment	ves

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
					Electrical ana					
					electronics repairers,					
	Electrical and		Electrical and		transportation		Electronic repairers,		Electronic repairers,	
	electronics repairers,		electronics repairers,		equipment, and		communications and		communications and	
7100	industrial and utility	7100	industrial and utility	7100	industrial and utility	523	industrial equipment	523	industrial equipment	
٠	Electronic equipment installers and repairers,		Electronic equipment installers and repairers,		Electronic equipment installers and repairers,		Miscellaneous electrical and electronic		Miscellaneous electrical and electronic	
7110	motor vehicles	7110	motor vehicles	7110	motor vehicles	533	equipment repairers	533	equipment repairers	
	entertainment		entertainment		entertainment		Electronic repairers,		Electronic repairers,	
							communications and		communications and	
7120	equipment installers	7120	equipment installers	7120	equipment installers	523		F22		
/120	and repairers	7120	and repairers	/120	and repairers	523	industrial equipment	523	industrial equipment	
	Security and fire alarm		Security and fire alarm		Security and fire alarm					
7130	systems installers	7130	systems installers	7130	systems installers	575	Electricians	575	Electricians	
7 200	Systems motamers	7 2 3 3	Systems motamers	, 100	o y o cerrio mio camero	373		3.5		
	Aircraft mechanics and		Aircraft mechanics and		Aircraft mechanics and		Aircraft engine		Aircraft engine	
7140	service technicians	7140	service technicians	7140	service technicians	508	mechanics	508	mechanics	
	Automotive body and		Automotive body and		Automotive body and		Automobile body and		Automobile body and	
7150	related repairers	7150	related repairers	7150	related repairers	514	related repairers	514	related repairers	
	Automotive glass		Automotive glass		Automotive glass		Automobile body and		Automobile body and	
7160	installers and repairers	7160	installers and repairers	7160	installers and repairers	514	related repairers	514	related repairers	
	Automotive service		Automotive service		Automotive service					
	technicians and		technicians and		technicians and					
7200	mechanics Bus and truck	7200	mechanics Bus and truck	7200	mechanics Bus and truck	505	Automobile mechanics Bus, truck, and	505	Automobile mechanics Bus, truck, and	
	mechanics and diesel		mechanics and diesel		mechanics and diesel		stationary engine		' '	
7210		7210		7210		F07	, ,	F07	stationary engine	
7210	engine specialists Heavy vehicle and	7210	engine specialists Heavy vehicle and	7210	engine specialists Heavy vehicle and	507	mechanics	507	mechanics	
	mobile equipment		mobile equipment		mobile equipment					
	service technicians and		service technicians and		service technicians and		Heavy equipment		Heavy equipment	
7220	mechanics	7220	mechanics	7220	mechanics	516	mechanics	516	mechanics	
7220	meenames	7220	meenames	7220	meenames	310	meenames	310	meenames	
7240	Small engine mechanics	7240	Small engine mechanics	7240	Small engine mechanics	509	Small engine repairers	509	Small engine repairers	
	Miscellaneous vehicle and mobile equipment		Miscellaneous vehicle and mobile equipment		Miscellaneous vehicle and mobile equipment					
	mechanics, installers,		mechanics, installers,		mechanics, installers,		Heavy equipment		Heavy equipment	
7260	, , ,	7260	, , ,	7260		516	mechanics	516	mechanics	
/260	and repairers	/260	and repairers	/260	and repairers	210	mechanics	210	mechanics	

Control and valve road repairers 7300 installers and repairers 7300 conditioning, and refrigeration mechanics and installers 7310 repairers 7320 repairers 7320 repairers 7320 repairers 7320 repairers 7320 repairers 7320 machinery mechanics 7330 machinery mechanics 7340 workers, general 7340 workers, general 7340 workers, general 7340 workers, general 7340 machinery 7350 machiner	2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
Heating, air conditioning, and refrigeration mechanics refrigeration mechanics or refrigeration mechanics and installers 7310		Control and valve		Control and valve		Control and valve		Mechanical controls and		Mechanical controls and	
conditioning, and refrigeration mechanics refrigeration mechanics and installers 7310 and power tool repairers 7310 industrial and refractory 7310 machinery machinery mechanics 7310 machinery 7310	7300	installers and repairers	7300	installers and repairers	7300	installers and repairers	539	valve repairers	539	valve repairers	
Additionable   Addi		J				J		Heating, air		Heating, air	
Home appliance repairers 7320 repairers 7320 repairers 526 repairers 526 repairers 526 repairers 526 repairers 527 industrial and refractory machinery mechanics 7330 machinery mechanics 7340 machinery mechanics 7340 machinery mechanics 7340 machinery mechanics 7340 machinery mechanics 7350 machinery mechanics 7360 Maintenance and repair workers, general 7360 machinery 7350 machi		refrigeration mechanics		refrigeration mechanics		refrigeration mechanics		conditioning, and		conditioning, and	
Home appliance repairers   Taylo   Home appliance repairers   Taylo   Industrial and refractory machinery mechanics   Taylo   Industrial machinery   Taylo   Industrial machinery mechanics   Taylo   Industrial machinery   Taylo   Industrial machinery   Taylo   Industrial ma	7315	and installers	7310	and installers	7310	and installers	534	refrigeration mechanics	534	refrigeration mechanics	
Total Prepairers   Total Precision instrument   Total Precis								Household appliance			
Industrial and refractory machinery mechanics 7330 machinery mechanics 7330 machinery mechanics 518 repairers 519 machinery mechanics and repair workers, general 7340 workers, ge		Home appliance		Home appliance		Home appliance		and power tool		and power tool	
Maintenance and repair   Maintenance and repair   Workers, general   7340   Maintenance workers, machinery   7350   Maintenance workers, machinery   7350   Maintenance workers, machinery   7350   Maintenance workers, machinery   7350   Maintenance workers, general   7340   Maintenance workers   7340	7320	repairers	7320	repairers	7320	repairers	526	repairers	526	repairers	
Maintenance and repair workers, general 7340 workers 7340 workers 7340 workers 7340 workers 7340 workers 7430 worker	7220	•	7220	,	7220	'	F40	,	540	·	
Maintenance workers, general   7340   workers, general   7340   workers, general   549   and repairers   549   and repairers	/330	machinery mechanics	/330	machinery mechanics	/330	machinery mechanics	218	repairers	518	repairers	
Maintenance workers, machinery 7350 machinery 7350 machinery 519 occupations 519 occupations occupations 519 o	7240	· ·	7240	· ·	7240		E40	· ·	E40	· '	
7350 machinery   7350 machinery   7350 machinery   7350 machinery   519 occupations   510 occupation	7340	workers, general	7340	workers, general	7340	workers, general	549	and repairers	549	and repairers	
Telecommunications   Telecom	7250	· ·	7250	· ·	7250	· .	F10	·	540	'	
Electrical power-line installers and repairers 7410 repairers 7420 repairers 7420 repairers 7420 repairers 7430		•									
7410 installers and repairers 7420 repairers 7420 repairers 7420 repairers 7420 repairers 7420 repairers 7430 r	/360	ivilliwrights	7360	ivilliwrights	7360	Milliwrights	544	Williwrights	544	Milliwrights	
line installers and repairers 7420 repairers 527 and repairers and repairers and repairers and repairers 327 and repairers and repairers and repairers and repairers and repairers and repairers 327 and repairers 328 and repairers and repairers and repairers and repairers 328 repairers 329 repairers 335 repairers 33	7410	installers and repairers	7410	installers and repairers	7410	installers and repairers	577	'	577	· '	
Precision instrument and equipment 7430 repairers 7430 repairers 7430 Other installation, maintenance, and repair workers including commercial divers, and signal and track switch technicians 7620 workers 7620 repairers 7620 repaire	7420	line installers and	7420	line installers and	7420	line installers and	F27	· ·	527	· ·	
and equipment repairers 7430 repairers 7430 repairers 7430 repairers 7430 repairers 7535 repairers 535 repairers 5	7420		7420		7420		527		527		
Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers  Coin, vending, and amusement machine  Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers  549  Not specified mechanics and repairers  S49  Not specified mechanics and repairers  Coin, vending, and amusement machine	7430	and equipment	7430	and equipment	7430	and equipment	535	musical instrument	535	musical instrument	
amusement machine amusement machine amusement machine		Wind turbine service		Other installation, maintenance, and repair		Other installation, maintenance, and repair workers including commercial divers, and signal and track switch		Not specified mechanics		Not specified mechanics	
7510 servicers and repairers 7510 servicers and repairers 7510 servicers and repairers 804 Truck drivers 804 Truck drivers	7540	amusement machine	7540	amusement machine	7540	amusement machine	00.		00.5		

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					Other installation, maintenance, and repair workers including commercial divers, and signal and track switch				Not specified mechanics	
7520	Commercial divers	7520	Commercial divers	7620	repairers	199	Athletes	549	and repairers	yes
	Locksmiths and safe		Locksmiths and safe		Locksmiths and safe		Locksmiths and safe		Locksmiths and safe	
7540	repairers	7540	repairers	7540	repairers	536	repairers	536	repairers	
7550	Manufactured building and mobile home installers	7550	Manufactured building and mobile home installers	7550	Manufactured building and mobile home installers	549	Not specified mechanics and repairers	549	Not specified mechanics and repairers	
							Not specified mechanics		Not specified mechanics	
7560	Riggers	7560	Riggers	7560	Riggers	549	and repairers	549	and repairers	
7600	Signal and track switch repairers	7600	Signal and track switch repairers	7620	Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers	<i>577</i>	Electrical power installers and repairers	549	Not specified mechanics and repairers	yes
7610	Helpersinstallation, maintenance, and repair workers	7610	Helpersinstallation, maintenance, and repair workers	7610	Helpersinstallation, maintenance, and repair workers	865	Helpers, mechanics and repairers	865	Helpers, mechanics and repairers	
7630	Other installation, maintenance, and repair workers	7620	Other installation, maintenance, and repair workers First-line	7620	Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers First-line	549	Not specified mechanics and repairers	549	Not specified mechanics and repairers	
7700	First-line supervisors of production and	7700	supervisors/managers of production and	7700	supervisors/managers of production and	C20	Supervisors, production	C20	Supervisors, production	
7700	operating workers Aircraft structure, surfaces, rigging, and		operating workers Aircraft structure, surfaces, rigging, and	7700	operating workers Aircraft structure, surfaces, rigging, and	628	occupations	628	occupations	
7710	systems assemblers	7710	systems assemblers	7710	systems assemblers	785	Assemblers	785	Assemblers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Electrical, electronics,		Electrical, electronics,		Electrical, electronics,					
	and electromechanical		and electromechanical		and electromechanical					
7720	assemblers	7720	assemblers	7720	assemblers	785	Assemblers	785	Assemblers	
	Engine and other		Engine and other		Engine and other					
7730	machine assemblers	7730	machine assemblers	7730	machine assemblers	785	Assemblers	785	Assemblers	
	Structural metal		Structural metal		Structural metal		Structural metal		Structural metal	
7740	fabricators and fitters	7740	fabricators and fitters	7740	fabricators and fitters	597	workers	597	workers	
	Miscellaneous		Miscellaneous		Miscellaneous					
	assemblers and		assemblers and		assemblers and					
7750	fabricators	7750	fabricators	7750	fabricators	785	Assemblers	785	Assemblers	
7800	Bakers	7800	Bakers	7800	Bakers	687	Bakers	687	Bakers	
	Butchers and other		Butchers and other		Butchers and other					
	meat, poultry, and fish		meat, poultry, and fish		meat, poultry, and fish		Butchers and meat		Butchers and meat	
7810	processing workers	7810	processing workers	7810	processing workers	686	cutters	686	cutters	
7810	processing workers	7810	processing workers	7810	processing workers	000	cutters	000	cutters	
	Food and tobacco		Food and tobacco		Food and tobacco					
	roasting, baking, and		roasting, baking, and		roasting, baking, and		Roasting and baking		Roasting and baking	
	drying machine		drying machine		drying machine		machine operators,		machine operators,	
7830	operators and tenders	7830	operators and tenders	7830	operators and tenders	763	food	763	food	
7840	Food batchmakers	7840	Food batchmakers	7840	Food batchmakers	688	Food batchmakers	688	Food batchmakers	
	Food cooking machine		Food cooking machine		Food cooking machine		Slicing and cutting		Slicing and cutting	
7850	operators and tenders	7850	operators and tenders	7850	operators and tenders	769	machine operators	769	machine operators	
	Food processing		Production workers, all		Food cooking machine		Machine operators, not		Slicing and cutting	
7855	workers, all other	8960	other	7850	operators and tenders	779	specified	769	machine operators	yes
	Computer control		Computer control		Computer control					
	programmers and		programmers and		programmers and		Tool programmers,		Tool programmers,	
7900	operators	7900	operators	7900	operators	233	numerical control	233	numerical control	
	Extruding and drawing		Extruding and drawing		Extruding and drawing					
	machine setters,		machine setters,		machine setters,					
	·		,		· · · · · · · · · · · · · · · · · · ·		Extruding and forming		Extruding and forming	
7920	operators, and tenders,	7920	operators, and tenders,	7920	operators, and tenders,	755	Extruding and forming	755	Extruding and forming	
7920	metal and plastic	7920	metal and plastic	/920	metal and plastic	755	machine operators	755	machine operators	
	Forging machine setters,		Forging machine setters,		Forging machine setters,					
	operators, and tenders,		operators, and tenders,		operators, and tenders,		Forging machine		Forging machine	
7930	metal and plastic	7930	metal and plastic	7930	metal and plastic	713	operators	713	operators	

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7940	Rolling machine setters, operators, and tenders, metal and plastic	7940	Rolling machine setters, operators, and tenders, metal and plastic	7940	Rolling machine setters, operators, and tenders, metal and plastic	707	Rolling machine operators	707	Rolling machine operators	
7950	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	7950	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	7950	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	706	Punching and stamping press machine operators	706	Punching and stamping press machine operators	
7960	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	7960	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	7960	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	708	Drilling and boring machine operators	708	Drilling and boring machine operators	
8000	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	8000	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	8000	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	709	Grinding, abrading, buffing, and polishing machine operators	709	Grinding, abrading, buffing, and polishing machine operators	
8010	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	8010	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	8010	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	703	Lathe and turning machine set-up operators	703	Lathe and turning machine set-up operators	
8020	Milling and planing machine setters, operators, and tenders, metal and plastic	8020	Milling and planing machine setters, operators, and tenders, metal and plastic	8220	workers and plastic workers including milling and planing machine setters, and multiple machine tool setters, and lay-out workers.	703	Lathe and turning machine set-up operators	726	Wood lathe, routing, and planing machine operators	yes
8030	Machinists	8030	Machinists	8030	Machinists	637	Machinists	637	Machinists	·
8040	Metal furnace operators, tenders, pourers, and casters Model makers and	8040	Metal furnace and kiln operators and tenders Model makers and	8040	Metal furnace and kiln operators and tenders Model makers and	766	Furnace, kiln, and oven operators, exc. food Patternmakers and	766	Furnace, kiln, and oven operators, exc. food Patternmakers and	
8060	patternmakers, metal and plastic	8060	patternmakers, metal and plastic	8060	patternmakers, metal and plastic	645	model makers, metal	645	model makers, metal	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
8100	Molders and molding machine setters, operators, and tenders, metal and plastic	8100	Molders and molding machine setters, operators, and tenders, metal and plastic	8100	Molders and molding machine setters, operators, and tenders, metal and plastic	719	Molding and casting machine operators	719	Molding and casting machine operators	
2120	Multiple machine tool setters, operators, and tenders, metal and plastic	8120	Multiple machine tool setters, operators, and tenders, metal and plastic	8220	workers and plastic workers including milling and planing machine setters, and multiple machine tool setters, and lay-out workers.	684	Miscellaneous precision workers, n.e.c.	776	Wood lathe, routing, and planing machine	100
8120 8130	Tool and die makers	8120 8130	Tool and die makers	8130	Tool and die makers	634	Tool and die makers	726 634	operators Tool and die makers	yes
0130	Welding, soldering, and	0130	Welding, soldering, and	0130	Welding, soldering, and	034	1001 dila die makei3	034	1001 and are makers	
8140	brazing workers	8140	brazing workers	8140	brazing workers	783	Welders and cutters	783	Welders and cutters	
8150	Heat treating equipment setters, operators, and tenders, metal and plastic	8150	Heat treating equipment setters, operators, and tenders, metal and plastic	8150	Heat treating equipment setters, operators, and tenders, metal and plastic	724	Heat treating equipment operators	724	Heat treating equipment operators	
8160	Layout workers, metal and plastic	8160	Lay-out workers, metal and plastic	8220	workers and plastic workers including milling and planing machine setters, and multiple machine tool setters, and lay-out workers.	646	Lay-out workers	726	Wood lathe, routing, and planing machine operators	yes
8200	Plating and coating machine setters, operators, and tenders, metal and plastic	8200	Plating and coating machine setters, operators, and tenders, metal and plastic	8200	Plating and coating machine setters, operators, and tenders, metal and plastic	723	Metal plating machine operators	723	Metal plating machine operators	
8210	Tool grinders, filers, and sharpeners	8210	Tool grinders, filers, and sharpeners	8210	Tool grinders, filers, and sharpeners	644	Precision grinders, filers, and tool sharpeners	644	Precision grinders, filers, and tool sharpeners	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
					workers and plastic					
					workers including					
					milling and planing					
					machine setters, and					
	Metal workers and		Metal workers and		multiple machine tool		Wood lathe, routing,		Wood lathe, routing,	
	plastic workers, all		plastic workers, all		setters, and lay-out		and planing machine		and planing machine	
8220	other	8220	other	8220	workers.	726	operators	726	operators	
	Prepress technicians		Prepress technicians		Prepress technicians		Typesetters and		Typesetters and	
8250	and workers	8250	and workers	8250	and workers	736	compositors	736	compositors	
			Printing machine		Printing machine		Typesetters and		Typesetters and	
8255	Printing press operators	8260	operators	8260	operators	736	compositors	736	compositors	
	Print binding and		Bookbinders and		Bookbinders and					
8256	finishing workers	8230	bindery workers	8230	bindery workers	679	Bookbinders Laundering and dry	679	Bookbinders Laundering and dry	
	Laundry and dry-		Laundry and dry-		Laundry and dry-		cleaning machine		cleaning machine	
0200	·	0200	· · ·	9200		740		740	ı -	
8300	cleaning workers Pressers, textile,	8300	cleaning workers Pressers, textile,	8300	cleaning workers Pressers, textile,	748	operators	748	operators	
	garment, and related		garment, and related		garment, and related		Pressing machine		Pressing machine	
8310	materials	8310	materials	8310	materials	747	operators	747	operators	
0310	Sewing machine	0310	Sewing machine	0310	Sewing machine	, 4,	Textile sewing machine	747	Textile sewing machine	
8320	operators	8320	operators	8320	operators	744	operators	744	operators	
			регини						ромине	
	Shoe and leather		Shoe and leather		Shoe and leather					
8330	workers and repairers	8330	workers and repairers	8330	workers and repairers	669	Shoe repairers	669	Shoe repairers	
	Shoe machine operators		Shoe machine operators		Shoe machine operators					
8340	and tenders	8340	and tenders	8340	and tenders	745	Shoe machine operators	745	Shoe machine operators	
	Tailors, dressmakers,		Tailors, dressmakers,		Tailors, dressmakers,					
8350	and sewers	8350	and sewers	8350	and sewers	666	Dressmakers	666	Dressmakers	
					Textile bleaching and					
	Textile bleaching and		Textile bleaching and		dyeing, and cutting					
	dyeing machine		dyeing machine		machine setters,		Miscellaneous textile		Textile cutting machine	
8360	operators and tenders	8360	operators and tenders	8400	operators, and tenders	749	machine operators	743	operators	yes
0300	operators and tenders	0300	operators and tenders	0-00	operators, una tenuers	173	macinic operators	773	υρειαιοισ	yes
					Textile bleaching and					
	Textile cutting machine		Textile cutting machine		dyeing, and cutting					
	setters, operators, and		setters, operators, and		machine setters,		Textile cutting machine		Textile cutting machine	
8400	tenders	8400	tenders	8400	operators, and tenders	743	operators	743	operators	

2010	2012.0	2002	2002.0	Less	Less Detailed	1990	4000 0	Less	Less Detailed	Change in Detail Alters
Census Code	2010 Census Label	Census Code	2002 Census Label	Detailed 2002 Code	2002 Label	Census Code	1990 Census Label	Detailed 1990 Code	1990 Label	1990
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	Textile knitting and		Textile knitting and		Textile knitting and					
	weaving machine		weaving machine		weaving machine		Knitting, looping, taping,		Knitting, looping, taping,	
	setters, operators, and		setters, operators, and		setters, operators, and		and weaving machine		and weaving machine	
8410	tenders	8410	tenders	8410	tenders	739	operators	739	operators	
	Textile winding,		Textile winding,		Textile winding,					
	twisting, and drawing		twisting, and drawing		twisting, and drawing					
	out machine setters,		out machine setters,		out machine setters,		Winding and twisting		Winding and twisting	
8420	operators, and tenders	8420	operators, and tenders	8420	operators, and tenders	738	machine operators	738	machine operators	
0 120	,	0.120	,	0120	operators, and tenders	730	пистите орегисого	730	пистите орегисот	
	Extruding and forming		Extruding and forming							
	machine setters,		machine setters,		Miscellaneous textile,					
	operators, and tenders,		operators, and tenders,		apparel, and furnishings					
	synthetic and glass		synthetic and glass		workers except		Extruding and forming		Miscellaneous textile	
8430	fibers	8430	fibers	8460	upholsterers	755	machine operators	749	machine operators	yes
					Miscellaneous textile,					
	_ , , , ,		_ , , , ,		apparel, and furnishings					
	Fabric and apparel		Fabric and apparel		workers except	_	Patternmakers and		Miscellaneous textile	
8440	patternmakers	8440	patternmakers	8460	upholsterers	645	model makers, metal	749	machine operators	yes
8450	Upholsterers	8450	Upholsterers	8450	Upholsterers Miscellaneous textile,	668	Upholsterers	668	Upholsterers	
	Textile, apparel, and		Textile, apparel, and		apparel, and furnishings					
	furnishings workers, all		furnishings workers, all		workers except		Miscellaneous textile		Miscellaneous textile	
8460	other	8460	other	8460	upholsterers	749	machine operators	749	machine operators	
0400	Cabinetmakers and	0400	Cabinetmakers and	0400	Cabinetmakers and	743	Cabinet makers and	743	Cabinet makers and	
8500	bench carpenters	8500	bench carpenters	8500	bench carpenters	657	bench carpenters	657	bench carpenters	
					P		Furniture and wood		Furniture and wood	
8510	Furniture finishers	8510	Furniture finishers	8510	Furniture finishers	658	finishers	658	finishers	
					Miscellaneous					
					woodworkers including				Miscellaneous	
	Model makers and		Model makers and		model makers and		Patternmakers and		woodworking machine	
8520	patternmakers, wood	8520	patternmakers, wood Sawing machine setters,	8550	patternmakers Sawing machine setters,	645	model makers, metal	733	operators	yes
	Sawing machine setters,		,		operators, and tenders,		Cawing machine		Cawing machine	
0520	operators, and tenders,	0520	operators, and tenders,	0530	' ' '	727	Sawing machine	727	Sawing machine	
8530	wood	8530	wood	8530	wood	727	operators	727	operators	
	Woodworking machine		Woodworking machine		Woodworking machine					
	setters, operators, and		setters, operators, and		setters, operators, and		Nailing and tacking		Nailing and tacking	
8540	tenders, except sawing	8540	tenders, except sawing	8540	tenders, except sawing	729	machine operators	729	machine operators	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990
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					Miscellaneous					
					woodworkers including		Miscellaneous		Miscellaneous	
					model makers and		woodworking machine		woodworking machine	
8550	Woodworkers, all other	8550	Woodworkers, all other	8550	patternmakers	733	operators	733	operators	
0330	Woodworkers, un outer	0330	Woodworkers, un ource	0330	patternmakers	733	operators	733	орегисого	
	Power plant operators,		Power plant operators,		Power plant operators,					
	distributors, and		distributors, and		distributors, and					
8600	dispatchers	8600	dispatchers	8600	dispatchers	695	Power plant operators	695	Power plant operators	
	Stationary engineers		Stationary engineers		Stationary engineers					
8610	and boiler operators	8610	and boiler operators	8610	and boiler operators	696	Stationary engineers	696	Stationary engineers	
	Water and wastewater		Water and liquid waste		Water and liquid waste		Water and sewage		Water and sewage	
	treatment plant and		treatment plant and		treatment plant and		treatment plant		treatment plant	
8620	system operators	8620	system operators	8620	system operators	694	operators	694	operators	
	Miscellaneous plant and		Miscellaneous plant and		Miscellaneous plant and		Miscellaneous plant and		Miscellaneous plant and	
8630	system operators	8630	system operators	8630	system operators	699	system operators	699	system operators	
	Chemical processing		Chemical processing		Chemical processing		Separating, filtering, and		Separating, filtering, and	
	machine setters.		machine setters,		machine setters.		clarifying machine		clarifying machine	
8640	operators, and tenders	8640	operators, and tenders	8640	operators, and tenders	757	operators	757	operators	
8040	Crushing, grinding,	8040	Crushing, grinding,	8040	Crushing, grinding,	/3/	Орегатогз	131	operators	
	polishing, mixing, and		polishing, mixing, and		polishing, mixing, and		Mixing and blending		Mixing and blending	
8650	blending workers	8650	blending workers	8650	blending workers	756	machine operators	756	machine operators	
							Slicing and cutting		Slicing and cutting	
8710	Cutting workers	8710	Cutting workers	8710	Cutting workers	769	machine operators	769	machine operators	
	Extrucing, torming,		Extruding, forming,		Extruding, forming,		·		·	
	pressing, and		pressing, and		pressing, and					
	compacting machine		compacting machine		compacting machine					
	setters, operators, and		setters, operators, and		setters, operators, and		Extruding and forming		Extruding and forming	
8720	tenders	8720	tenders	8720	tenders	755	machine operators	755	machine operators	
	Furnace, kiln, oven,		Furnace, kiln, oven,		Furnace, kiln, oven,					
	drier, and kettle		drier, and kettle		drier, and kettle		Furnace, kiln, and oven		Furnace, kiln, and oven	
8730	operators and tenders	8730	operators and tenders	8730	operators and tenders	766	operators, exc. food	766	operators, exc. food	
	Inspectors, testers,		Inspectors, testers,		Inspectors, testers,		Credere and contain		Cuadana and santar-	
0740	sorters, samplers, and	0746	sorters, samplers, and	0740	sorters, samplers, and	700	Graders and sorters,	700	Graders and sorters,	
8740	weighers Jewelers and precious	8740	weighers Jewelers and precious	8740	weighers Jewelers and precious	799	exc. agricultural Camera, watch, and	799	exc. agricultural Camera, watch, and	
	stone and metal		stone and metal		stone and metal		musical instrument		musical instrument	
8750	workers	8750	workers	8750	workers	535		535		
8/50	WUIKEIS	0/50	WOIKEIS	0/50	WOIKEIS	J 333	repairers	J 555	repairers	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
8760	Medical, dental, and ophthalmic laboratory technicians Packaging and filling	8760	Medical, dental, and ophthalmic laboratory technicians Packaging and filling	8760	Medical, dental, and ophthalmic laboratory technicians Packaging and filling	678	Dental laboratory and medical appliance technicians	678	Dental laboratory and medical appliance technicians	
8800	machine operators and tenders	8800	machine operators and tenders	8800	machine operators and tenders	754	Packaging and filling machine operators Painting and paint	754	Packaging and filling machine operators Painting and paint	
8810	Painting workers	8810	Painting workers	8810	Painting workers	759	spraying machine operators	759	spraying machine operators	
8830	Photographic process workers and processing machine operators	8830	Photographic process workers and processing machine operators	8830	Photographic process workers and processing machine operators	774	Photographic process machine operators	774	Photographic process machine operators	
8840	Semiconductor processors	8840	Semiconductor processors	8960	workers including semiconductor processors and cooling and freezing equipment operators	779	Machine operators, not specified	779	Machine operators, not specified	
8850	Adhesive bonding machine operators and tenders	8850	Cementing and gluing machine operators and tenders	8850	Cementing and gluing machine operators and tenders	753	Cementing and gluing machine operators	753	Cementing and gluing machine operators	
8860	cleaning, washing, and metal pickling equipment operators and tenders	8860	cleaning, washing, and metal pickling equipment operators and tenders	8860	metal pickling equipment operators and tenders other production workers including	764	Washing, cleaning, and pickling machine operators	764	Washing, cleaning, and pickling machine operators	
8900	Cooling and freezing equipment operators and tenders	8900	Cooling and freezing equipment operators and tenders	8960	semiconductor processors and cooling and freezing equipment operators	779	Machine operators, not specified	779	Machine operators, not specified	
8910	Etchers and engravers Molders, shapers, and casters, except metal	8910	Etchers and engravers Molders, shapers, and casters, except metal	8910	Etchers and engravers Molders, shapers, and casters, except metal	649	Engravers, metal Hand molders and	649	Engravers, metal  Hand molders and	
8920	and plastic Paper goods machine setters, operators, and	8920	and plastic Paper goods machine setters, operators, and	8920	and plastic Paper goods machine setters, operators, and	675	shapers, except jewelers Folding machine	675	shapers, except jewelers Folding machine	
8930	tenders	8930	tenders	8930	tenders	765	operators Machine operators, not	765	operators Machine operators, not	
8940	Tire builders	8940	Tire builders	8940	Tire builders	779	specified	779	specified	

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8950	Helpersproduction workers	8950	Helpersproduction workers	8950	Helpersproduction workers	874	Production helpers	874	Production helpers	
8930		8930		8930	workers including semiconductor processors and cooling	874		874	·	
8965	Production workers, all other	8960	Production workers, all other	8960	and freezing equipment operators	779	Machine operators, not	779	Machine operators, not	
8965	Supervisors of	8960	Supervisors,	8960	Supervisors,	779	specified	779	specified	
0000	transportation and material moving		transportation and material moving	0000	transportation and material moving	000	Supervisors, motor		Supervisors, motor	
9000	workers Aircraft pilots and flight	9000	workers Aircraft pilots and flight	9000	workers Aircraft pilots and flight	803	vehicle operators Airplane pilots and	803	vehicle operators Airplane pilots and	
9030	engineers	9030	engineers	9030	engineers	226	navigators	226	navigators	
9040	Air traffic controllers and airfield operations specialists	9040	Air traffic controllers and airfield operations specialists Transportation	9040	Air traffic controllers and airfield operations specialists Transportation	227	Air traffic controllers Public transportation	227	Air traffic controllers Public transportation	
9050	Flight attendants	4550	attendants	4550	attendants	463	attendants	463	attendants	
	Ambulance drivers and attendants, except emergency medical		Ambulance drivers and attendants, except emergency medical		Ambulance drivers and attendants, except emergency medical		Taxicab drivers and		Taxicab drivers and	
9110	technicians	9110	technicians	9110	technicians	809	chauffeurs	809	chauffeurs	
9120	Bus drivers Driver/sales workers	9120	Bus drivers Driver/sales workers	9120	Bus drivers Driver/sales workers	808	Bus drivers	808	Bus drivers	
9130	and truck drivers	9130	and truck drivers	9130	and truck drivers	804	Truck drivers	804	Truck drivers	
	Taxi drivers and		Taxi drivers and		Taxi drivers and		Taxicab drivers and		Taxicab drivers and	
9140	chauffeurs	9140	chauffeurs	9140	chauffeurs	809	chauffeurs	809	chauffeurs	
	Motor vehicle		Motor vehicle		Motor vehicle		Taxicab drivers and		Taxicab drivers and	
9150	operators, all other Locomotive engineers	9150	operators, all other	9150	operators, all other	809	chauffeurs Locomotive operating	809	chauffeurs Locomotive operating	
9200	and operators	9200	Locomotive engineers and operators	9200	Locomotive engineers and operators	824	occupations	824	occupations	
9200	and operators	3200	and operators	3200	απα υμεταιστό	024	оссирацина	024	ουυματίστιο	
9230	Railroad brake, signal, and switch operators	9230	Railroad brake, signal, and switch operators	9230	Railroad brake, signal, and switch operators	825	Railroad brake, signal, and switch operators	825	Railroad brake, signal, and switch operators	
	Railroad conductors and		Railroad conductors and		Railroad conductors and		Railroad conductors and		Railroad conductors and	
9240	yardmasters	9240	yardmasters	9240	yardmasters	823	yardmasters	823	yardmasters	
	Subway, streetcar, and other rail transportation		Subway, streetcar, and other rail		Subway, streetcar, and other rail transportation		Locomotive operating		Locomotive operating	
9260	workers	9260	transportation workers	9260	workers	824	occupations	824	occupations	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Sailors and marine		Sailors and marine		Sailors and marine oilers, and ship					
9300	oilers	9300	oilers	9300	engineers	829	Sailors and deckhands	829	Sailors and deckhands	
3300	oners	3300	oners	3300	engineers	023	Janors and decknanas	023	Janors and accentarias	
	Ship and boat captains		Ship and boat captains		Ship and boat captains					
9310	and operators	9310	and operators	9310	and operators	829	Sailors and deckhands	829	Sailors and deckhands	
	·		·		Sailors and marine					
					oilers, and ship					
9330	Ship engineers	9330	Ship engineers	9300	engineers	829	Sailors and deckhands	829	Sailors and deckhands	
9340	Bridge and lock tenders	9340	Bridge and lock tenders	9420	Miscellaneous transportation workers including bridge and lock tenders and traffic technicians	834	Bridge, lock, and lighthouse tenders	883	Freight, stock, and material handlers, n.e.c.	yes
9350	Parking lot attendants	9350	Parking lot attendants	9350	Parking lot attendants	813	Parking lot attendants	813	Parking lot attendants	
9330	Automotive and	9330	raiking for attenuants	9330	raiking lot attenuants	813	Garage and service	013	Garage and service	
	watercraft service		Service station		Service station		station related		station related	
9360	attendants	9360	attendants	9360	attendants	885	occupations	885	occupations	
	Transportation		Transportation		Transportation		Public transportation		Public transportation	
9410	inspectors	9410	inspectors	9410	inspectors	463	attendants	463	attendants	
9415	Transportation attendants, except flight attendants	4550	Transportation attendants	4550	Transportation attendants	463	Public transportation attendants	463	Public transportation attendants	
9420	Other transportation workers	9420	Other transportation workers	9420	Miscellaneous transportation workers including bridge and lock tenders and traffic technicians	883	Freight, stock, and material handlers, n.e.c.	883	Freight, stock, and material handlers, n.e.c.	
9500	Conveyor operators and tenders	9500	Conveyor operators and tenders	9560	Conveyor operators and tenders, and hoist and winch operators	876	Stevedores	848	Hoist and winch operators	yes
	Crane and tower		Crane and tower		Crane and tower		Hoist and winch		Hoist and winch	
9510	operators	9510	operators	9510	operators	848	operators	848	operators	
	Dredge, excavating, and		Dredge, excavating, and		Dredge, excavating, and					
	loading machine		loading machine	0===	loading machine		Excavating and loading	0.55	Excavating and loading	
9520	operators	9520	operators	9520	operators	853	machine operators	853	machine operators	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
9560	Hoist and winch	9560	Hoist and winch	9560	Conveyor operators and tenders, and hoist and winch operators	848	Hoist and winch	848	Hoist and winch	
	Industrial truck and		Industrial truck and		Industrial truck and				,	
9600	Cleaners of vehicles and	9600	Cleaners of vehicles and	9600	tractor operators Cleaners of vehicles and		Truck drivers Vehicle washers and	804	Truck drivers  Vehicle washers and	
9610	equipment Laborers and freight,	9610	Laborers and freight,	9610	Laborers and freight,	887	equipment cleaners	887	equipment cleaners	
9620	stock, and material movers, hand	9620	stock, and material movers, hand	9620	stock, and material movers, hand	889	Laborers, except construction	889	Laborers, except construction	
9630	Machine feeders and offbearers	9630	Machine feeders and offbearers	9630	Machine feeders and offbearers	878	Machine feeders and offbearers	878	Machine feeders and offbearers	
9640	Packers and packagers, hand	9640	Packers and packagers, hand	9640	Packers and packagers, hand	888	Hand packers and packagers	888	Hand packers and packagers	
	Pumping station		Pumping station		Pumping station		Miscellaneous material moving equipment		Miscellaneous material moving equipment	
9650	operators Refuse and recyclable	9650	operators Refuse and recyclable	9650	operators Refuse and recyclable	859	operators	859	operators	
9720	material collectors	9720	material collectors	9720	material collectors	875	Garbage collectors	875	Garbage collectors	
9730	Mine shuttle car operators	9730	Shuttle car operators	9750	Miscellaneous material moving workers including shuttle car operators, and tank car, truck, and ship loaders	859	Miscellaneous material moving equipment operators	454	Elevator operators	yes
9740	Tank car, truck, and ship loaders	9740	Tank car, truck, and ship loaders	9750	Miscellaneous material moving workers including shuttle car operators, and tank car, truck, and ship loaders	876	Stevedores	454	Flevator operators	VOS
3/40		3/40		3/30	Miscellaneous material moving workers including shuttle car	6/0	Presenties	+34	Elevator operators	yes
9750	Material moving workers, all other	9750	Material moving workers, all other	9750	operators, and tank car, truck, and ship loaders	454	Elevator operators	454	Elevator operators	

2010 Census Code	2010 Census Label	2002 Census Code	2002 Census Label	Less Detailed 2002 Code	Less Detailed 2002 Label	1990 Census Code	1990 Census Label	Less Detailed 1990 Code	Less Detailed 1990 Label	Change in Detail Alters 1990 Assignment
	Military enlisted tactical operations and air/weapons specialists and crew members		Military enlisted tactical operations and air/weapons specialists and crew members		Military enlisted tactical operations and air/weapons specialists and crew members		Military <sup>‡</sup>	905	Military <sup>‡</sup>	
	Military, rank not		Military, rank not		Military, rank not					
9830	specified	9830	specified	9830	specified	905	Military <sup>‡</sup>	905	Military <sup>‡</sup>	
9840	Armed Forces*	9840	Armed forces*	9840	Armed Forces*	905	Military <sup>‡</sup>	905	Military <sup>‡</sup>	

†ACS data combine 1940 (Nuclear Technicians) and 1960 (Other life, physical, and social science technicians) under the 2002 scheme. Under the 2010 scheme, ACS data instead combine 1940 (Nuclear Technicians) with 1930 (Geological and Petroleum Technicians) into one category, and 1950 (Social science research assistants) and 1965 (Miscellaneous life, physical, and social science technicians; new category that replaces 1960). In the 2002 scheme, the 1930 code is not combined with other occupations.

‡This code and label are not directly from the Census occupation codes; they are the 1990 proposed standard code and job title from Meyer & Osborn (2005).

\*This code and label are not directly from the Census occupation codes; they are from CPS technical documentation (CPS 2011), though the codes are present in both CPS and ACS data.

§This is one of two cases where the IPUMS assignments between 2002 and 1990 differ from those recommended by Meyer & Osborn (2005). Instead of coding persons with the occupation of "Parking Enforcement Workers" (2002 code 3840) as "Housekeepers, maids, butlers, stewards, and lodging quarters cleaners" (1990 code 405), IPUMS assigns a code of 423 to these cases in OCC1990, which corresponds to "Other law enforcement: sheriffs, bailiffs, correctional institution officers". The double-coded crosswalks from the Census Bureau show that 100% of persons coded as "Parking Enforcement Workers" in 2002 would have been coded as "Other law enforcement: sheriffs, bailiffs, correctional institution officers" under the 1990 coding scheme.

Italicized 2002 and 2010 codes represent cases where the ACS data includes less detail than Census occupation codes (CPS data generally uses more detailed Census occupation codes rather than aggregated ACS coding scheme).