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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

¹ 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 scheme² (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

² 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

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 codes³.

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

³ 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. Summary of 2010 Census Occupation Code Disposition

<i>Type of Difference</i>	<i>Occupation Code Status</i>			Total
	Different Census Occupation code	Revised SOC Code or Label; same Census Code	Identical SOC Code, Label, Census Occupation Code	
None	--	44	427	471
Uncontested New Codes (Section A)	30	--	--	30
Contested New Codes (Section B)	38	--	--	38
Total	68	44	427	539
<i>*This represents a single occupation code in 2010, which aggregates two distinct occupation codes from the 2002 scheme.</i>				

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 data⁴. 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.

⁴ 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 data⁵ 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 counterpart⁶. 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

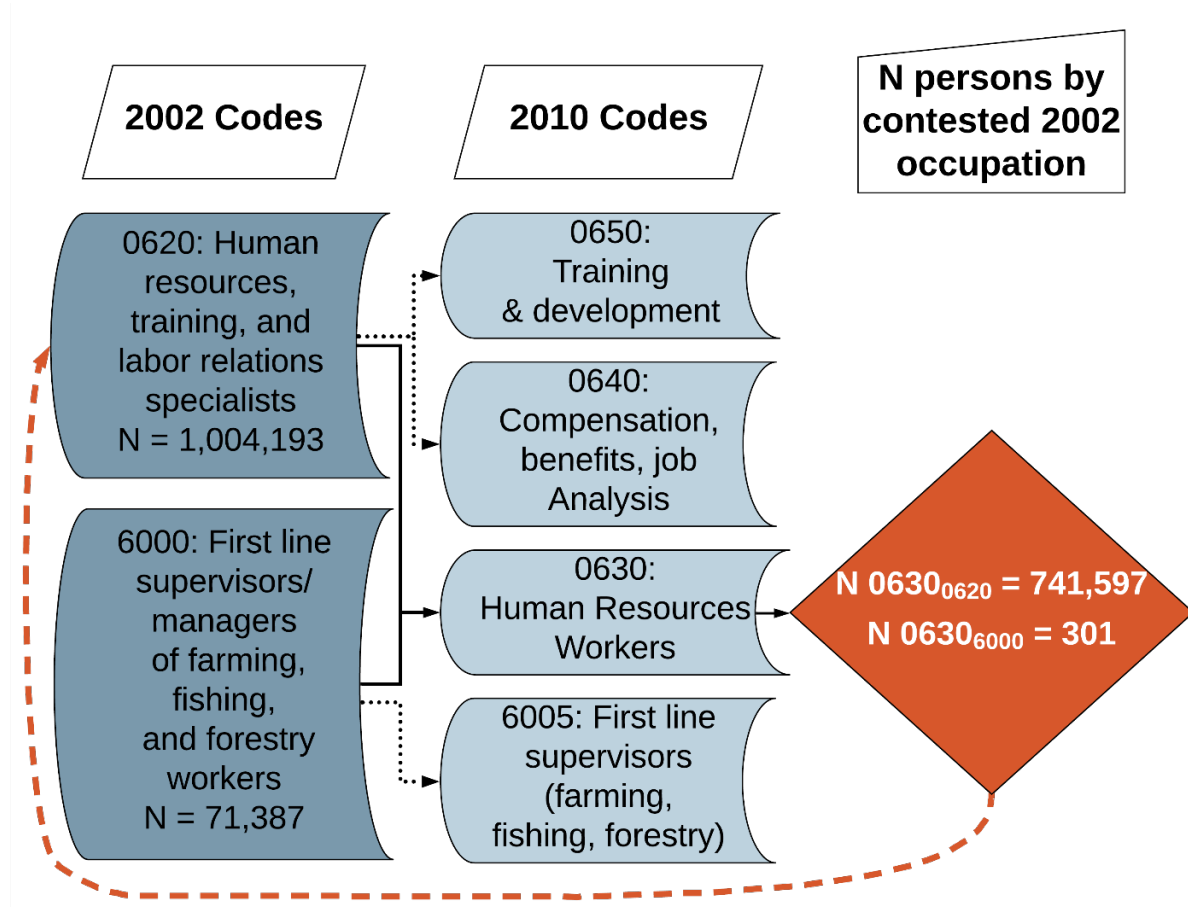
⁵ The 5-year 2005-2009 ACS data use 2002 occupation codes.

⁶ 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% ($1,004,193 \times 73.85\% = 741,597$) 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% ($71,688 \times .42\% = 301$) 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 2010⁷.

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

⁷ 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 occupation⁸ that combines previously distinct occupations. The other 67 new codes in 2010 provide additional detail about occupations.

⁸ 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 scheme⁹, or choose to use unharmonized occupation data.

⁹ 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

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	Final 2002 Census Code Assignment
Section A: Uncontested New 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 occupations					
Medical Scientists	1650				--
		1650	Medical scientists	--	1650
		1660	Life scientists, all other	--	1650
A-3 Social service specialist occupations					
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
		3245	Therapists, all other	--	3240
A-5 Nursing occupations					
Registered Nurses	3130				--
		3255	Nurse anesthetists	--	3130
		3256	Nurse practitioners and nurse midwives	--	3130
		3257	Nurse midwives	--	3130
		3258	Nurse practitioners	--	3130

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	Final 2002 Census Code Assignment
A-6 Medical assistant occupations					
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 support occupations					
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

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	Final 2002 Census Code Assignment
Section B: Contested New Codes					
B-1 Human resources and farming/fishing/forestry supervision occupations					
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 occupations					
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
		1106	Computer network architects	100,164	1110
B-3 Legal occupations					
Lawyers	2100				--
		2100	Lawyers	--	2100
		2105	Judicial law clerks	9,259	2100

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	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 technology occupations					
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 occupations					
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 solar panel) occupations					
Electricians	6350				--
		6355	Electricians	--	6350

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	Final 2002 Census Code Assignment
		6765	Miscellaneous construction workers, including solar photo voltaic installers, septic tank servicers, and sewer pipe cleaners	191	6760
Roofers	6510				--
		6515	Roofers	--	6510
		6765	Miscellaneous construction workers, including solar photo voltaic installers, septic 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, septic 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, septic 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, septic 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

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	Final 2002 Census Code Assignment
B-7 Printing related occupations					
Bookbinders and bindery workers	8230				--
		8256	Print binding and finishing workers	47,454	8230
Job printers	8240				--
		8255	Printing press operators	72,077	8260
		8256	Print binding and finishing workers	181	8230
Printing machine operators	8260				--
		8255	Printing press operators	218,245	8260
B-8 Farm and ranch occupations[‡]					
Farm, ranch, and other agricultural managers	0200	0205	Farmers, ranchers, and other agricultural 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 science 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

Crosswalk				Evidence	Result
2002 Census Label*	2002 Census Code*	2010 Census Code*	2010 Census Label*	Weighted N in 2002 [†]	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
*These are detailed Census occupation codes, and are typically used in CPS data.					
†Weighted Ns listed represent the proportion of each 2002 category that is attributed to the new, contested category in 2010.					
‡Farm and ranch occupations are the only contested new 2010 code that is declining, where a new 2010 occupation code is the aggregation of two or more 2002 codes.					
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.					

Table A2. Full Crosswalk for 2010, 2002, and 1990 Census Occupation Codes, including Less Detailed Code Information

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
0010	Chief executives	0010	Chief executives	0010	Chief executives and legislators	004	Chief executives & general administrators, public administration	004	Chief executives & general administrators, public administration	
0020	General and operations managers	0020	General and operations managers	0020	General and operations managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0040	Advertising and promotions managers	0040	Advertising and promotions managers	0040	Advertising and promotions managers	013	Managers, marketing, advertising, and public relations	013	Managers, marketing, advertising, and public relations	
0050	Marketing and sales managers	0050	Marketing and sales managers	0050	Marketing and sales managers	013	Managers, marketing, advertising, and public relations	013	Managers, marketing, advertising, and public relations	
0060	Public relations and fundraising managers	0060	Public relations managers	0060	Public relations managers	013	Managers, marketing, advertising, and public relations	013	Managers, marketing, advertising, and public relations	
0100	Administrative services managers	0100	Administrative services managers	0100	Administrative services managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0110	Computer and information systems managers	0110	Computer and information systems managers	0110	Computer and 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	0130	Human resources managers	0130	Human resources managers	008	Personnel and labor relations managers	008	Personnel and labor relations managers	
0136	Human resources managers	0130	Human resources managers	0130	Human resources managers	008	Personnel and labor relations managers	008	Personnel and labor relations managers	
0137	Training and development managers	0130	Human resources managers	0130	Human resources managers	008	Personnel and labor relations managers	008	Personnel and labor relations managers	
0140	Industrial production managers	0140	Industrial production managers	0140	Industrial production managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0150	Purchasing managers	0150	Purchasing managers	0150	Purchasing managers	033	Purchasing agents and buyers, n.e.c.	033	Purchasing agents and buyers, n.e.c.	
0160	Transportation, storage, and distribution managers	0160	Transportation, storage, and distribution managers	0160	Transportation, storage, and distribution managers	373	Expediteurs	373	Expediteurs	
0205	Farmers, ranchers, and other agricultural managers	0210	Farmers and ranchers	0210	Farmers and ranchers	473	Farmers, except horticultural	473	Farmers, except 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 Assignment
0220	Construction managers	0220	Construction managers	0220	Construction managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0230	Education administrators	0230	Education administrators	0230	Education administrators	014	Administrators, education and related fields	014	Administrators, education and related fields	
0300	Architectural and engineering managers	0300	Engineering managers	0300	Engineering managers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0310	Food service managers	0310	Food service managers	0310	Food service managers	017	Managers, food serving and lodging establishments	017	Managers, food serving and lodging establishments	
0325	Funeral service managers	0320	Funeral directors	0430	Miscellaneous managers including postmasters and mail superintendents	019	Funeral directors	022	Managers and administrators, n.e.c.	yes
0330	Gaming managers	0330	Gaming managers	0330	Gaming managers	021	Managers, service organizations, n.e.c.	021	Managers, service organizations, n.e.c.	
0340	Lodging managers	0340	Lodging managers	0340	Lodging managers	017	Managers, food serving and lodging establishments	017	Managers, food serving and lodging establishments	
0350	Medical and health services managers	0350	Medical and health services managers	0350	Medical and health services managers	015	Managers, medicine and health	015	Managers, medicine and health	
0360	Natural sciences managers	0360	Natural sciences managers	0360	Natural sciences managers	021	Managers, service organizations, n.e.c.	021	Managers, service organizations, n.e.c.	
0410	Property, real estate, and community association managers	0410	Property, real estate, and community association managers	0410	Property, real estate, and community association managers	018	Managers, properties and real estate	018	Managers, properties and real estate	
0420	Social and community service managers	0420	Social and community service managers	0420	Social and community service managers	021	Managers, service organizations, n.e.c.	021	Managers, service organizations, n.e.c.	
0425	Emergency management directors	0730	Other business operations specialists	0730	Other business operations specialists	037	Management related occupations, n.e.c.	037	Management related occupations, n.e.c.	
0430	Managers, all other Agents and business managers of artists, performers, and athletes	0430	Managers, all other Agents and business managers of artists, performers, and athletes	0430	Miscellaneous managers including postmasters and mail superintendents	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0500		0500		0500	Agents and business managers of artists, performers, and athletes	034	Business and promotion agents	034	Business and promotion 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
0510	Buyers and purchasing agents, farm products	0510	Purchasing agents and buyers, farm products	0510	Purchasing agents and buyers, farm products	028	Purchasing agents and buyers, farm products	028	Purchasing agents and buyers, farm products	
0520	Wholesale and retail buyers, except farm products	0520	Wholesale and retail buyers, except farm products	0520	Wholesale and retail buyers, except farm products	029	Buyers, wholesale and retail trade, except farm products	029	Buyers, wholesale and retail trade, except farm 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.	
0540	Claims adjusters, appraisers, examiners, and investigators	0540	Claims adjusters, appraisers, examiners, and investigators	0540	Claims adjusters, appraisers, examiners, and investigators	375	Insurance adjusters, examiners, and investigators	375	Insurance adjusters, examiners, and investigators	
0565	Compliance officers	0560	Compliance officers, except agriculture, construction, health and safety, and transportation	0560	Compliance officers, except agriculture, construction, health and safety, and transportation	036	Inspectors and compliance officers, except construction	036	Inspectors and compliance officers, except construction	
0600	Cost estimators	0600	Cost estimators	0600	Cost estimators	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
0630	Human resources workers	0620	Human resources, training, and labor relations specialists	0620	Human resources, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	
0640	Compensation, benefits, and job analysis specialists	0620	Human resources, training, and labor relations specialists	0620	Human resources, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	
0650	Training and development specialists	0620	Human resources, training, and labor relations specialists	0620	Human resources, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	027	Personnel, training, and labor relations specialists	
0700	Logisticians	0700	Logisticians	0700	Logisticians	065	Operations and systems researchers and analysts	065	Operations and systems researchers and analysts	
0710	Management analysts	0710	Management analysts	0710	Management analysts	026	Management analysts	026	Management analysts	
0725	Meeting, convention, and event planners	0720	Meeting and convention planners	0720	Meeting and convention planners	021	Managers, service organizations, n.e.c.	021	Managers, service organizations, n.e.c.	
0726	Fundraisers	4960	Sales and related workers, all other	4960	Sales and related workers, all other	274	Sales workers, other commodities	274	Sales workers, other commodities	
0735	Market research analysts and marketing specialists	1810	Market and survey researchers	1810	Market and survey 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
0740	Business operations specialists, all other	0730	Other business operations specialists	0730	Other business operations specialists	037	Management related occupations, n.e.c.	037	Management related occupations, n.e.c.	
0800	Accountants and auditors	0800	Accountants and auditors	0800	Accountants and auditors	023	Accountants and auditors	023	Accountants and auditors	
0810	Appraisers and assessors of real estate	0810	Appraisers and assessors of real estate	0810	Appraisers and assessors of real estate	254	Real estate sales occupations	254	Real estate sales occupations	
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	
0850	Personal financial advisors	0850	Personal financial advisors	0850	Personal financial advisors	025	Other financial officers	025	Other financial officers	
0860	Insurance underwriters	0860	Insurance underwriters	0860	Insurance underwriters	024	Underwriters	024	Underwriters	
0900	Financial examiners	0900	Financial examiners	0900	Financial examiners	036	Inspectors and compliance officers, except construction	036	Inspectors and compliance officers, except construction	
0910	Credit counselors and loan officers	0910	Loan counselors and officers	0910	Loan counselors and officers	025	Other financial officers	025	Other financial officers	
0930	Tax examiners and collectors, and revenue agents	0930	Tax examiners, collectors, and revenue agents	0930	Tax examiners, collectors, and revenue agents	023	Accountants and auditors	023	Accountants and auditors	
0940	Tax preparers	0940	Tax preparers	0940	Tax preparers	025	Other financial officers	025	Other financial officers	
0950	Financial specialists, all other	0950	Financial specialists, all other	0950	Financial specialists, all other	025	Other financial officers	025	Other financial officers	
1005	Computer and information research scientists	1000	Computer scientists and systems analysts	1000	Computer scientists and systems analysts	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1006	Computer systems analysts	1000	Computer scientists and systems analysts	1000	Computer scientists and systems analysts	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1007	Information security analysts	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	
1010	Computer programmers	1010	Computer programmers	1010	Computer programmers	229	Computer programmers	229	Computer programmers	
1020	Software developers, applications and systems software	1020	Computer software engineers	1020	Computer software 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	1100	Network and computer systems administrators	064	Computer systems analysts and scientists	064	Computer systems analysts and scientists	
1106	Computer network architects	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	
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	066	Actuaries	066	Actuaries	
1210	Mathematicians	1210	Mathematicians	1240	<i>Miscellaneous mathematical science occupations, including mathematicians and statisticians</i>	068	Mathematical scientists, n.e.c.	068	Mathematical scientists, n.e.c.	
1220	Operations research analysts	1220	Operations research analysts	1220	Operations research analysts	065	Operations and systems researchers and analysts	065	Operations and systems researchers and analysts	
1230	Statisticians	1230	Statisticians	1240	<i>Mathematicians miscellaneous mathematical science occupations, including mathematicians and statisticians</i>	067	Statisticians	068	Mathematical scientists, n.e.c.	yes
1240	<i>Miscellaneous mathematical science occupations</i>	1240	<i>Miscellaneous mathematical science occupations</i>	1240	<i>Mathematicians miscellaneous mathematical science occupations, including mathematicians and statisticians</i>	068	Mathematical scientists, n.e.c.	068	Mathematical scientists, n.e.c.	
1300	Architects, except naval Surveyors, cartographers, and photogrammetrists	1300	Architects, except naval Surveyors, cartographers, and photogrammetrists	1300	Architects, except naval Surveyors, cartographers, and photogrammetrists	043	Architects	043	Architects	
1310	Surveyors, cartographers, and photogrammetrists	1310	Surveyors, cartographers, and photogrammetrists	1310	Surveyors, cartographers, and photogrammetrists	218	Surveying and mapping technicians	218	Surveying and mapping technicians	
1320	Aerospace engineers	1320	Aerospace engineers	1320	Aerospace engineers	044	Aerospace engineers	044	Aerospace engineers	
1330	Agricultural engineers	1330	Agricultural engineers	1340	<i>Biomedical and agricultural engineers</i>	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
1340	Biomedical engineers	1340	Biomedical engineers	1340	Biomedical and 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	
1400	Computer hardware engineers	1400	Computer hardware engineers	1400	Computer hardware engineers	055	Electrical and electronic engineers	055	Electrical and electronic engineers	
1410	Electrical and electronics engineers	1410	Electrical and electronics engineers	1410	Electrical and electronic engineers	055	Electrical and electronic engineers	055	Electrical and electronic engineers	
1420	Environmental engineers	1420	Environmental engineers	1420	Environmental engineers	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1430	Industrial engineers, including health and safety	1430	Industrial engineers, including health and safety	1430	Industrial engineers, including health and safety	056	Industrial engineers	056	Industrial engineers	
1440	Marine engineers and naval architects	1440	Marine engineers and naval architects	1440	Marine engineers and naval architects	059	Engineers, n.e.c.	059	Engineers, n.e.c.	
1450	Materials engineers	1450	Materials engineers	1450	Materials engineers	045	Metallurgical and materials engineers	045	Metallurgical and materials engineers	
1460	Mechanical engineers	1460	Mechanical engineers	1460	Mechanical engineers	057	Mechanical engineers	057	Mechanical engineers	
1500	Mining and geological engineers, including mining safety engineers	1500	Mining and geological engineers, including mining safety engineers	1520	Petroleum, mining and geological engineers, including mining safety engineers	059	Engineers, n.e.c.	047	Petroleum engineers	yes
1510	Nuclear engineers	1510	Nuclear engineers	1530	Miscellaneous engineers, including 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	
1530	Engineers, all other	1530	Engineers, all other	1530	Miscellaneous engineers, including 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	
1560	Surveying and mapping technicians	1560	Surveying and mapping technicians	1560	Surveying and mapping technicians	218	Surveying and mapping technicians	218	Surveying and mapping technicians	
1600	Agricultural and food scientists	1600	Agricultural and food scientists	1600	Agricultural and food scientists	077	Agricultural and food scientists	077	Agricultural and food scientists	

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
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 conservation scientists	
1650	Medical scientists	1650	Medical scientists	1650	Medical scientists	083	Medical scientists	083	Medical scientists	
1660	Life scientists, all other	1650	Medical scientists	1650	Medical scientists	083	Medical scientists	083	Medical scientists	
1700	Astronomers and physicists	1700	Astronomers and physicists	1700	Astronomers and physicists	069	Physicists and astronomers	069	Physicists and astronomers	
1710	Atmospheric and space scientists	1710	Atmospheric and space scientists	1710	Atmospheric and space scientists	074	Atmospheric and space scientists	074	Atmospheric and space scientists	
1720	Chemists and materials scientists	1720	Chemists and materials scientists	1720	Chemists and materials scientists	073	Chemists, except biochemists	073	Chemists, except biochemists	
1740	Environmental scientists and geoscientists	1740	Environmental scientists and geoscientists	1740	Environmental scientists and geoscientists	075	Geologists and geodesists	075	Geologists and geodesists	
1760	Physical scientists, all other	1760	Physical scientists, all other	1760	Physical scientists, all other	076	Physical scientists, n.e.c.	076	Physical scientists, n.e.c.	
1800	Economists	1800	Economists	1800	Economists	166	Economists	166	Economists	
1815	Survey researchers	1810	Market and survey researchers	1860	Miscellaneous social scientists, including sociologists	166	Economists	169	Social scientists, n.e.c.	yes
1820	Psychologists	1820	Psychologists	1820	Psychologists	167	Psychologists	167	Psychologists	
1830	Sociologists	1830	Sociologists	1860	Miscellaneous social scientists, including sociologists	168	Sociologists	169	Social scientists, n.e.c.	yes
1840	Urban and regional planners	1840	Urban and regional planners	1840	Urban and regional 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.	
1900	Agricultural and food science technicians	1900	Agricultural and food science technicians	1900	Agricultural and food 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 [†]	Geological and petroleum technicians	1930 [†]	Geological and petroleum technicians	1930 [†]	Geological and petroleum technicians	225	Science technicians, n.e.c.	225	Science technicians, n.e.c.	
1940 [†]	Nuclear technicians	1940 [†]	Nuclear technicians	1930 [†]	Geological and petroleum technicians	235	Technicians, n.e.c.	225	Science technicians, 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 [†]	Social science research assistants	1960 [†]	Other life, physical, and social science technicians	1960 [†]	Miscellaneous life, physical, and social science technicians, including social science research assistants and nuclear technicians	214	Industrial engineering technicians	214	Industrial engineering technicians	
1965 [†]	Miscellaneous life, physical, and social science technicians	1960 [†]	Other life, physical, and social science technicians	1960 [†]	Miscellaneous life, physical, and social science technicians, including social science research assistants and nuclear technicians	214	Industrial engineering technicians	214	Industrial engineering technicians	
2000	Counselors	2000	Counselors	2000	Counselors	163	Counselors, educational and vocational	163	Counselors, educational 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	Miscellaneous community and social service specialists, including health educators and community health workers	2020	Miscellaneous community and social service specialists	2020	Miscellaneous community and social service specialists	465	Welfare service aides	465	Welfare service aides	
2040	Clergy	2040	Clergy	2040	Clergy	176	Clergy	176	Clergy	
2050	Directors, religious activities and education	2050	Directors, religious activities and education	2050	Directors, religious activities and education	176	Clergy	176	Clergy	
2060	Religious workers, all other	2060	Religious workers, all other	2060	Religious workers, all other	176	Clergy	176	Clergy	
2100	Lawyers	2100	Lawyers	2100	Lawyers, and judges, magistrates, and other 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
2105	Judicial law clerks	2100	Lawyers	2100	Lawyers, and judges, magistrates, and other judicial workers	178	Lawyers	178	Lawyers	
2145	Paralegals and legal assistants	2140	Paralegals and legal assistants	2140	Paralegals and legal assistants	234	Legal assistants	234	Legal assistants	
2160	Miscellaneous legal support workers	2150	Miscellaneous legal support workers	2150	Miscellaneous legal support workers	234	Legal assistants	234	Legal assistants	
2200	Postsecondary teachers	2200	Postsecondary teachers	2200	Postsecondary teachers	154	Postsecondary teachers, subject not specified	154	Postsecondary teachers, subject not specified	
2300	Preschool and kindergarten teachers	2300	Preschool and kindergarten teachers	2300	Preschool and kindergarten teachers	155	Teachers, prekindergarten and kindergarten	155	Teachers, prekindergarten and 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	
2320	Secondary school teachers	2320	Secondary school teachers	2320	Secondary school teachers	157	Teachers, secondary school	157	Teachers, secondary school	
2330	Special education teachers	2330	Special education teachers	2330	Special education teachers	158	Teachers, special education	158	Teachers, special education	
2340	Other teachers and instructors	2340	Other teachers and instructors	2340	Other teachers and 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.	
2550	Other education, training, and library workers	2550	Other education, training, and library workers	2550	Other education, training, and library workers	159	Teachers, n.e.c.	159	Teachers, n.e.c.	
2600	Artists and related workers	2600	Artists and related workers	2600	Artists and related workers	188	Painters, sculptors, craft-artists, and artist printmakers	188	Painters, sculptors, craft-artists, and artist 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	2710	Producers and directors	2710	Producers and directors	187	Actors and directors	187	Actors and directors	
2720	Athletes, coaches, umpires, and related workers	2720	Athletes, coaches, umpires, and related workers	2720	Athletes, coaches, umpires, and related workers	199	Athletes	199	Athletes	
2740	Dancers and choreographers	2740	Dancers and choreographers	2740	Dancers and 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
2750	Musicians, singers, and related workers	2750	Musicians, singers, and related workers	2750	Musicians, singers, and related workers	186	Musicians and composers	186	Musicians and composers	
2760	Entertainers and performers, sports and related workers, all other	2760	Entertainers and performers, sports and related workers, all other	2760	Entertainers and performers, sports and related workers, all other	194	Artists, performers, and related workers, n.e.c.	194	Artists, performers, and related workers, n.e.c.	
2800	Announcers	2800	Announcers	2800	Announcers	198	Announcers	198	Announcers	
2810	News analysts, reporters and correspondents	2810	News analysts, reporters and correspondents	2810	News analysts, reporters and correspondents	195	Editors and reporters	195	Editors and reporters	
2825	Public relations specialists	2820	Public relations specialists	2820	Public relations specialists	013	Managers, marketing, advertising, and public relations	013	Managers, marketing, advertising, and public 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	
2860	Miscellaneous media and communication workers	2860	Miscellaneous media and communication workers	2860	Miscellaneous media and communication workers	194	Artists, performers, and related workers, n.e.c.	194	Artists, performers, and related workers, n.e.c.	
2900	Broadcast and sound engineering technicians and radio operators	2900	Broadcast and sound engineering technicians and radio operators	2900	Broadcast and sound 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	
2960	Media and communication equipment workers, all other	2960	Media and communication equipment workers, all other	2900	Broadcast and sound engineering technicians and radio operators, and media and communication equipment workers, all other	228	Broadcast equipment operators	228	Broadcast equipment operators	
3000	Chiropractors	3000	Chiropractors	3000	Chiropractors	089	Health diagnosing practitioners, n.e.c.	089	Health diagnosing practitioners, n.e.c.	
3010	Dentists	3010	Dentists	3010	Dentists	085	Dentists	085	Dentists	
3030	Dietitians and nutritionists	3030	Dietitians and nutritionists	3030	Dietitians and nutritionists	097	Dietitians	097	Dietitians	
3040	Optometrists	3040	Optometrists	3040	Optometrists	087	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.	
3220	Respiratory therapists	3220	Respiratory therapists	3220	Respiratory therapists	098	Respiratory therapists	098	Respiratory therapists	
3230	Speech-language pathologists	3230	Speech-language pathologists	3230	Speech-language 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.	
3300	Clinical laboratory technologists and technicians	3300	Clinical laboratory technologists and technicians	3300	Clinical laboratory technologists and technicians	203	Clinical laboratory technologists and technicians	203	Clinical laboratory technologists and technicians	
3310	Dental hygienists	3310	Dental hygienists	3310	Dental hygienists	204	Dental hygienists	204	Dental hygienists	
3320	Diagnostic related technologists and technicians	3320	Diagnostic related technologists and technicians	3320	Diagnostic related technologists and technicians	206	Radiologic technicians	206	Radiologic technicians	
3400	Emergency medical technicians and paramedics	3400	Emergency medical technicians and paramedics	3400	Emergency medical technicians and paramedics	208	Health technologists and technicians, n.e.c.	208	Health technologists and technicians, n.e.c.	
3420	Health practitioner support technologists and technicians	3410	Health diagnosing and treating practitioner support technicians	3410	Health diagnosing and treating practitioner support technicians	678	Dental laboratory and medical appliance technicians	678	Dental laboratory and medical appliance technicians	

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
3500	Licensed practical and licensed vocational nurses	3500	Licensed practical and licensed vocational nurses	3500	Licensed practical and licensed vocational nurses	207	Licensed practical nurses	207	Licensed practical nurses	
3510	Medical records and health information technicians	3510	Medical records and health information technicians	3510	Medical records and health information technicians	205	Health record technologists and technicians	205	Health record technologists and technicians	
3520	Opticians, dispensing	3520	Opticians, dispensing	3520	Opticians, dispensing	677	Optical goods workers	677	Optical goods workers	
3535	Miscellaneous health technologists and technicians	3530	Miscellaneous health technologists and technicians	3530	Miscellaneous health technologists and technicians	208	Health technologists and technicians, n.e.c.	208	Health technologists and technicians, n.e.c.	
3540	Other healthcare practitioners and technical occupations	3540	Other healthcare practitioners and technical occupations	3540	Other healthcare practitioners and technical occupations	208	Health technologists and technicians, n.e.c.	208	Health technologists and technicians, n.e.c.	
3600	Nursing, psychiatric, and home health aides	3600	Nursing, psychiatric, and home health aides	3600	Nursing, psychiatric, and home health aides	447	Nursing aides, orderlies, and attendants	447	Nursing aides, orderlies, and attendants	
3610	Occupational therapy assistants and aides	3610	Occupational therapist assistants and aides	3610	Occupational therapist assistants and aides	099	Occupational therapists	099	Occupational therapists	
3620	Physical therapist assistants and aides	3620	Physical therapist assistants and aides	3620	Physical therapist assistants and aides	103	Physical therapists	103	Physical therapists	
3630	Massage therapists	3630	Massage therapists	3630	Massage therapists	469	Personal service occupations, n.e.c.	469	Personal service 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	

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
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	3710	First-line supervisors/managers of police and detectives	418	Police and detectives, public service	418	Police and detectives, public service	
3720	First-line supervisors of fire fighting and prevention workers	3720	First-line supervisors/managers of fire fighting and prevention workers	3720	First-line supervisors/managers of fire fighting and prevention workers	417	Firefighting occupations	417	Firefighting occupations	
3730	First-line supervisors of protective service workers, all other	3730	Supervisors, protective service workers, all other	3730	Supervisors, protective service workers, all other	415	Supervisors, guards	415	Supervisors, guards	
3740	Firefighters	3740	Fire fighters	3740	Fire fighters	417	Firefighting occupations	417	Firefighting occupations	
3750	Fire inspectors	3750	Fire inspectors	3750	Fire inspectors	417	Firefighting occupations	417	Firefighting occupations	
3800	Bailiffs, correctional officers, and jailers	3800	Bailiffs, correctional officers, and jailers	3800	Bailiffs, correctional officers, and jailers	423	Sheriffs, bailiffs, and other law enforcement officers	423	Sheriffs, bailiffs, and other law enforcement officers	
3820	Detectives and criminal investigators	3820	Detectives and criminal investigators	3820	Detectives and criminal investigators	418	Police and detectives, public service	418	Police and detectives, public service	
3830	<i>Fish and game wardens</i>	3830	<i>Fish and game wardens</i>	3840 [§]	<i>Miscellaneous law enforcement workers</i>	423 [§]	<i>Sheriffs, bailiffs, and other law enforcement officers</i>	423 [§]	<i>Sheriffs, bailiffs, and other law enforcement officers</i>	

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
3840 ^s	Parking enforcement workers	3840 ^s	Parking enforcement workers	3840 ^s	Miscellaneous law enforcement workers	423 ^s	Sheriffs, bailiffs, and other law enforcement officers	423 ^s	Sheriffs, bailiffs, and other law enforcement officers	
3850	Police and sheriff's patrol officers	3850	Police and sheriff's patrol officers	3850	Police officers	418	Police and detectives, public service	418	Police and detectives, public service	
3860	Transit and railroad police	3860	Transit and railroad police	3850	Police officers	418	Police and detectives, public service	418	Police and detectives, public service	
3900	Animal control workers	3900	Animal control workers	3900	Animal control workers	427	Protective service occupations, n.e.c.	427	Protective service occupations, n.e.c.	
3910	Private detectives and investigators	3910	Private detectives and investigators	3910	Private detectives and investigators	418	Police and detectives, public service	418	Police and detectives, public service	
3930	Security guards and gaming surveillance officers	3920	Security guards and gaming surveillance officers	3920	Security guards and gaming surveillance officers	426	Guards and police, exc. public service	426	Guards and police, exc. public service	
3940	Crossing guards	3940	Crossing guards	3940	Crossing guards	425	Crossing guards	425	Crossing guards	
3945	Transportation security screeners	3920	Security guards and gaming surveillance officers	3920	Security guards and gaming surveillance officers	426	Guards and police, exc. public service	426	Guards and police, exc. public service	
3955	Lifeguards and other recreational, and all other protective service workers	3950	Lifeguards and other protective service workers	3950	Lifeguards and other protective service workers	427	Protective service occupations, n.e.c.	427	Protective service occupations, n.e.c.	
4000	Chefs and head cooks	4000	Chefs and head cooks	4000	Chefs and head cooks	436	Cooks	436	Cooks	
4010	First-line supervisors of food preparation and serving workers	4010	First-line supervisors/managers of food preparation and serving workers	4010	First-line supervisors/managers of food preparation and serving workers	436	Cooks	436	Cooks	
4020	Cooks	4020	Cooks	4020	Cooks	436	Cooks	436	Cooks	
4030	Food preparation workers	4030	Food preparation workers	4030	Food preparation workers	444	Miscellaneous food preparation occupations	444	Miscellaneous food preparation occupations	
4040	Bartenders	4040	Bartenders	4040	Bartenders	434	Bartenders	434	Bartenders	
4050	Combined food preparation and serving workers, including fast food	4050	Combined food preparation and serving workers, including fast food	4050	Combined food preparation and serving workers, including fast food	439	Kitchen workers, food preparation	439	Kitchen workers, food preparation	
4060	Counter attendants, cafeteria, food concession, and coffee shop	4060	Counter attendants, cafeteria, food concession, and coffee shop	4060	Counter attendants, cafeteria, food concession, and coffee shop	443	Waiters'/waitresses' assistants	443	Waiters'/waitresses' assistants	
4110	Waiters and waitresses	4110	Waiters and waitresses	4110	Waiters and waitresses	435	Waiters and waitresses	435	Waiters and waitresses	
4120	Food servers, nonrestaurant	4120	Food servers, nonrestaurant	4120	Food servers, nonrestaurant	443	Waiters'/waitresses' assistants	443	Waiters'/waitresses' assistants	

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
4130	Dining room and cafeteria attendants and bartender helpers	4130	Dining room and cafeteria attendants and bartender helpers	4130	Miscellaneous food preparation and serving related workers including dining room and cafeteria attendants and bartender helpers	443	Waiters'/waitresses' assistants	443	Waiters'/waitresses' assistants	
4140	Dishwashers	4140	Dishwashers	4140	Dishwashers	444	Miscellaneous food preparation occupations	444	Miscellaneous food preparation occupations	
4150	Hosts and hostesses, restaurant, lounge, and coffee shop	4150	Hosts and hostesses, restaurant, lounge, and coffee shop	4150	Hosts and hostesses, restaurant, lounge, and coffee shop	469	Personal service occupations, n.e.c.	469	Personal service occupations, n.e.c.	
4160	Food preparation and serving related workers, all other	4160	Food preparation and serving related workers, all other	4130	Miscellaneous food preparation and serving related workers including dining room and cafeteria attendants and bartender helpers	444	Miscellaneous food preparation occupations	443	Waiters'/waitresses' assistants	yes
4200	First-line supervisors of housekeeping and janitorial workers	4200	First-line supervisors/managers of housekeeping and janitorial workers	4200	First-line supervisors/managers of housekeeping and janitorial workers	448	Supervisors, cleaning and building service workers	448	Supervisors, cleaning and building service workers	
4210	First-line supervisors of landscaping, lawn service, and groundskeeping workers	4210	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	4210	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	485	Supervisors, related agricultural occupations	485	Supervisors, related agricultural occupations	
4220	Janitors and building cleaners	4220	Janitors and building cleaners	4220	Janitors and building cleaners	453	Janitors and cleaners	453	Janitors and cleaners	
4230	Maids and housekeeping cleaners	4230	Maids and housekeeping cleaners	4230	Maids and housekeeping cleaners	405	Housekeepers and butlers	405	Housekeepers and butlers	
4240	Pest control workers	4240	Pest control workers	4240	Pest control workers	455	Pest control occupations	455	Pest control occupations	
4250	Grounds maintenance workers	4250	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
4300	First-line supervisors of gaming workers	4300	First-line supervisors/managers of gaming workers	4300	First-line supervisors/managers of gaming workers	022	Managers and administrators, n.e.c.	022	Managers and administrators, n.e.c.	
4320	First-line supervisors of personal service workers	4320	First-line supervisors/managers of personal service workers	4320	First-line supervisors/managers of personal service workers	456	Supervisors, personal service occupations	456	Supervisors, personal service occupations	
4340	Animal trainers	4340	Animal trainers	4340	Animal trainers	479	Farm workers	479	Farm workers	
4350	Nonfarm animal caretakers	4350	Nonfarm animal caretakers	4350	Nonfarm animal caretakers	487	Animal caretakers, except farm	487	Animal caretakers, except farm	
4400	Gaming services workers	4400	Gaming services workers	4400	Gaming services workers	459	Attendants, amusement and recreation facilities	459	Attendants, amusement and recreation facilities	
4410	Motion picture projectionists	4410	Motion picture projectionists	4410	Motion picture projectionists	773	Motion picture projectionists	773	Motion picture projectionists	
4420	Ushers, lobby attendants, and ticket takers	4420	Ushers, lobby attendants, and ticket takers	4420	Ushers, lobby attendants, and ticket takers	462	Ushers	462	Ushers	
4430	Miscellaneous entertainment attendants and related workers	4430	Miscellaneous entertainment attendants and related workers	4430	Miscellaneous entertainment attendants and related workers	459	Attendants, amusement and recreation facilities	459	Attendants, amusement and recreation facilities	
4460	Embalmers and funeral attendants	4460	Funeral service workers	4460	Funeral service workers	469	Personal service occupations, n.e.c.	469	Personal service occupations, n.e.c.	
4465	Morticians, undertakers, 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	
4510	Hairdressers, hairstylists, and cosmetologists	4510	Hairdressers, hairstylists, and cosmetologists	4510	Hairdressers, hairstylists, and cosmetologists	458	Hairdressers and cosmetologists	458	Hairdressers and cosmetologists	
4520	Miscellaneous personal appearance workers	4520	Miscellaneous personal appearance workers	4520	Miscellaneous personal appearance workers	458	Hairdressers and cosmetologists	458	Hairdressers and cosmetologists	
4530	Baggage porters, bellhops, and concierges	4530	Baggage porters, bellhops, and concierges	4530	Baggage porters, bellhops, and concierges	464	Baggage porters and bellhops	464	Baggage porters and bellhops	
4540	Tour and travel guides	4540	Tour and travel guides	4540	Tour and travel guides	461	Guides	461	Guides	
4600	Childcare workers	4600	Child care workers	4600	Child care workers	468	Child care workers, n.e.c.	468	Child care workers, n.e.c.	
4610	Personal care aides	4610	Personal and home care aides	4610	Personal and home care aides	447	Nursing aides, orderlies, and attendants	447	Nursing aides, orderlies, and attendants	

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
4620	Recreation and fitness workers	4620	Recreation and fitness workers	4620	Recreation and fitness workers	175	Recreation workers	175	Recreation workers	
4640	Residential advisors	4640	Residential advisors	4640	Residential advisors	468	Child care workers, n.e.c.	468	Child care workers, n.e.c.	
4650	Personal care and service workers, all other	4650	Personal care and service workers, all other	4650	Personal care and service workers, all other	469	Personal service occupations, n.e.c.	469	Personal service occupations, n.e.c.	
4700	First-line supervisors of retail sales workers	4700	First-line supervisors/managers of retail sales workers	4700	First-line supervisors/managers of retail sales workers	243	Supervisors and proprietors, sales occupations	243	Supervisors and proprietors, sales occupations	
4710	First-line supervisors of non-retail sales workers	4710	First-line supervisors/managers of non-retail sales workers	4710	First-line supervisors/managers of non-retail sales workers	243	Supervisors and proprietors, sales occupations	243	Supervisors and proprietors, sales occupations	
4720	Cashiers	4720	Cashiers	4720	Cashiers	276	Cashiers	276	Cashiers	
4740	Counter and rental clerks	4740	Counter and rental clerks	4740	Counter and rental clerks	274	Sales workers, other commodities	274	Sales workers, other commodities	
4750	Parts salespersons	4750	Parts salespersons	4750	Parts salespersons	274	Sales workers, other commodities	274	Sales workers, other commodities	
4760	Retail salespersons	4760	Retail salespersons	4760	Retail salespersons	275	Sales counter clerks	275	Sales counter clerks	
4800	Advertising sales agents	4800	Advertising sales agents	4800	Advertising sales agents	256	Advertising and related sales occupations	256	Advertising and related sales occupations	
4810	Insurance sales agents	4810	Insurance sales agents	4810	Insurance sales agents	253	Insurance sales occupations	253	Insurance sales occupations	
4820	Securities, commodities, and financial services sales agents	4820	Securities, commodities, and financial services sales agents	4820	Securities, commodities, and financial services sales agents	255	Securities and financial services sales occupations	255	Securities and financial services sales occupations	
4830	Travel agents	4830	Travel agents	4830	Travel agents	318	Transportation ticket and reservation agents	318	Transportation ticket and reservation agents	
4840	Sales representatives, services, all other	4840	Sales representatives, services, all other	4840	Sales representatives, services, all other	274	Sales workers, other commodities	274	Sales workers, other commodities	
4850	Sales representatives, wholesale and manufacturing	4850	Sales representatives, wholesale and manufacturing	4850	Sales representatives, wholesale and manufacturing	274	Sales workers, other commodities	274	Sales workers, other commodities	
4900	Models, demonstrators, and product promoters	4900	Models, demonstrators, and product promoters	4900	Models, demonstrators, and product promoters	283	Demonstrators, promoters and models, sales	283	Demonstrators, promoters and models, sales	
4920	Real estate brokers and sales agents	4920	Real estate brokers and sales agents	4920	Real estate brokers and sales agents	254	Real estate sales occupations	254	Real estate sales occupations	
4930	Sales engineers	4930	Sales engineers	4930	Sales engineers	258	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	
4950	Door-to-door sales workers, news and street vendors, and related workers	4950	Door-to-door sales workers, news and street vendors, and related workers	4950	Door-to-door sales workers, news and street vendors, and related workers	277	Street and door-to-door sales workers	277	Street and door-to-door sales workers	
4965	Sales and related workers, all other	4960	Sales and related workers, all other	4960	Sales and related workers, all other	274	Sales workers, other commodities	274	Sales workers, other commodities	
5000	First-line supervisors of office and administrative support workers	5000	First-line supervisors/managers of office and administrative support workers	5000	First-line supervisors/managers of office and administrative support workers	303	Supervisors, general office	303	Supervisors, general office	
5010	Switchboard operators, including answering service	5010	Switchboard operators, including answering service	5010	Switchboard operators, including answering service	348	Telephone operators	348	Telephone operators	
5020	Telephone operators	5020	Telephone operators	5020	Telephone operators	348	Telephone operators	348	Telephone operators	
5030	Communications equipment operators, all other	5030	Communications equipment operators, all other	5030	Communications equipment operators, all other	349 [†]	Other telecom operators [†]	349 [†]	Other telecom operators [†]	
5100	Bill and account collectors	5100	Bill and account collectors	5100	Bill and account collectors	378	Bill and account collectors	378	Bill and account collectors	
5110	Billing and posting clerks	5110	Billing and posting clerks and machine operators	5110	Billing and posting clerks and machine operators	344	Billing, posting, and calculating machine operators	344	Billing, posting, and calculating machine operators	
5120	Bookkeeping, accounting, and auditing clerks	5120	Bookkeeping, accounting, and auditing clerks	5120	Bookkeeping, accounting, and auditing clerks	337	Bookkeepers, accounting, and auditing clerks	337	Bookkeepers, accounting, and auditing clerks	
5120	Bookkeeping, accounting, and auditing clerks	5120	Bookkeeping, accounting, and auditing clerks	5120	Bookkeeping, accounting, and auditing clerks	337	Bookkeepers, accounting, and auditing clerks	337	Bookkeepers, accounting, and auditing clerks	
5130	Gaming cage workers	5130	Gaming cage workers	5130	Gaming cage workers	276	Cashiers	276	Cashiers	
5140	Payroll and timekeeping clerks	5140	Payroll and timekeeping clerks	5140	Payroll and timekeeping clerks	338	Payroll and timekeeping clerks	338	Payroll and timekeeping clerks	
5150	Procurement clerks	5150	Procurement clerks	5150	Procurement clerks	365	Stock and inventory clerks	365	Stock and inventory clerks	
5160	Tellers	5160	Tellers	5160	Tellers	383	Bank tellers	383	Bank tellers	
5165	Financial clerks, all other	5930	Office and administrative support workers, all other	5930	Miscellaneous office and administrative support workers including desktop publishers	389	Administrative support occupations, n.e.c.	389	Administrative support 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	
5250	Eligibility interviewers, government programs	5250	Eligibility interviewers, government programs	5250	Eligibility interviewers, government programs	377	Eligibility clerks, social welfare	377	Eligibility clerks, social welfare	
5260	File Clerks	5260	File clerks	5260	File clerks	335	File clerks	335	File clerks	
5300	Hotel, motel, and resort desk clerks	5300	Hotel, motel, and resort desk clerks	5300	Hotel, motel, and resort desk clerks	317	Hotel clerks	317	Hotel clerks	
5310	Interviewers, except eligibility and loan	5310	Interviewers, except eligibility and loan	5310	Interviewers, except eligibility and loan	316	Interviewers	316	Interviewers	
5320	Library assistants, clerical	5320	Library assistants, clerical	5320	Library assistants, clerical	329	Library clerks	329	Library clerks	
5330	Loan interviewers and clerks	5330	Loan interviewers and clerks	5330	Loan interviewers and clerks	376	Investigators and adjusters, except insurance	376	Investigators and adjusters, except 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	
5410	Reservation and transportation ticket agents and travel clerks	5410	Reservation and transportation ticket agents and travel clerks	5410	Reservation and transportation ticket agents and travel clerks	318	Transportation ticket and reservation agents	318	Transportation ticket and reservation agents	
5420	Information and record clerks, all other	5420	Information and record clerks, all other	5420	Information and record clerks, all other	336	Records clerks	336	Records clerks	
5500	Cargo and freight agents	5500	Cargo and freight agents	5500	Cargo and freight agents	364	Traffic, shipping, and receiving clerks	364	Traffic, shipping, and receiving clerks	
5510	Couriers and messengers	5510	Couriers and messengers	5510	Couriers and 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	
5540	Postal service clerks	5540	Postal service clerks	5540	Postal service clerks	354	Postal clerks, exc. mail carriers	354	Postal clerks, exc. mail carriers	
5550	Postal service mail carriers	5550	Postal service mail carriers	5550	Postal service mail carriers	355	Mail carriers, postal service	355	Mail carriers, postal service	
5560	Postal service mail sorters, processors, and processing machine operators	5560	Postal service mail sorters, processors, and processing machine operators	5560	Postal service mail sorters, processors, and processing machine operators	346	Mail preparing and paper handling machine operators	346	Mail preparing and paper handling machine operators	
5600	Production, planning, and expediting clerks	5600	Production, planning, and expediting clerks	5600	Production, planning, and expediting clerks	373	Expeditors	373	Expeditors	
5610	Shipping, receiving, and traffic clerks	5610	Shipping, receiving, and traffic clerks	5610	Shipping, receiving, and traffic clerks	364	Traffic, shipping, and receiving clerks	364	Traffic, shipping, and receiving clerks	
5620	Stock clerks and order fillers	5620	Stock clerks and order fillers	5620	Stock clerks and order fillers	365	Stock and inventory clerks	365	Stock and inventory 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	Secretaries and administrative assistants	5700	Secretaries and administrative assistants	5700	Secretaries and administrative assistants	313	Secretaries	313	Secretaries	
5800	Computer operators	5800	Computer operators	5800	Computer operators	308	Computer operators	308	Computer operators	
5810	Data entry keyers	5810	Data entry keyers	5810	Data entry keyers	385	Data-entry keyers	385	Data-entry keyers	
5820	Word processors and typists	5820	Word processors and typists	5820	Word processors and typists	315	Typists	315	Typists	
5830	Desktop publishers	5830	Desktop publishers	5930	Miscellaneous office and administrative support workers including desktop publishers	315	Typists	389	Administrative support occupations, n.e.c.	yes
5840	Insurance claims and policy processing clerks	5840	Insurance claims and policy processing clerks	5840	Insurance claims and policy processing clerks	375	Insurance adjusters, examiners, and investigators	375	Insurance adjusters, examiners, and investigators	
5850	Mail clerks and mail machine operators, except postal service	5850	Mail clerks and mail machine operators, except postal service	5850	Mail clerks and mail machine operators, except postal service	356	Mail clerks, exc. postal service	356	Mail clerks, exc. postal service	
5860	Office clerks, general	5860	Office clerks, general	5860	Office clerks, general	379	General office clerks	379	General office clerks	
5900	Office machine operators, except computer	5900	Office machine operators, except computer	5900	Office machine operators, except computer	347	Office machine operators, n.e.c.	347	Office machine operators, n.e.c.	
5910	Proofreaders and copy markers	5910	Proofreaders and copy markers	5910	Proofreaders and copy markers	384	Proofreaders	384	Proofreaders	

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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	5930	Miscellaneous office and administrative support workers including desktop publishers	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	First-line supervisors/managers of farming, fishing, and forestry workers	6000	First-line supervisors/managers of farming, fishing, and forestry workers	496	Timber cutting and logging occupations	496	Timber cutting and logging occupations	
6010	Agricultural inspectors	6010	Agricultural inspectors	6010	Agricultural inspectors	489	Inspectors, agricultural products	489	Inspectors, agricultural products	
6020	Animal breeders	6020	Animal breeders	6050	Miscellaneous agricultural workers including animal breeders	475	Managers, farms, except horticultural	479	Farm workers	yes
6040	Graders and sorters, agricultural products	6040	Graders and sorters, agricultural products	6040	Graders and sorters, agricultural products	488	Graders and sorters, agricultural products	488	Graders and sorters, agricultural products	
6050	Miscellaneous agricultural workers	6050	Miscellaneous agricultural workers	6050	Miscellaneous agricultural workers including animal breeders	479	Farm workers	479	Farm workers	
6100	Fishers and related fishing workers	6100	Fishers and related fishing workers	6100	Fishing and hunting workers	498	Fishers	498	Fishers	
6110	Hunters and trappers	6110	Hunters and trappers	6100	Fishing and hunting workers	498	Fishers	498	Fishers	
6120	Forest and conservation workers	6120	Forest and conservation workers	6120	Forest and conservation workers	496	Timber cutting and logging occupations	496	Timber cutting and logging occupations	
6130	Logging workers	6130	Logging workers	6130	Logging workers	496	Timber cutting and logging occupations	496	Timber cutting and logging occupations	
6200	First-line supervisors of construction trades and extraction workers	6200	First-line supervisors/managers of construction trades and extraction workers	6200	First-line supervisors/managers of construction trades and extraction workers	558	Supervisors, construction, n.e.c.	558	Supervisors, construction, n.e.c.	
6210	Boilermakers	6210	Boilermakers	6210	Boilermakers	643	Boilermakers	643	Boilermakers	
6220	Brickmasons, blockmasons, and stonemasons	6220	Brickmasons, blockmasons, and stonemasons	6220	Brickmasons, blockmasons, and stonemasons	563	Brickmasons and stonemasons	563	Brickmasons and stonemasons	
6230	Carpenters	6230	Carpenters	6230	Carpenters	567	Carpenters	567	Carpenters	
6240	Carpet, floor, and tile installers and finishers	6240	Carpet, floor, and tile installers and finishers	6240	Carpet, floor, and tile installers and finishers	563	Brickmasons and stonemasons	563	Brickmasons and stonemasons	

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6250	Cement masons, concrete finishers, and terrazzo workers	6250	Cement masons, concrete finishers, and terrazzo workers	6250	Cement masons, concrete finishers, and terrazzo workers	588	Concrete and terrazzo finishers	588	Concrete and terrazzo finishers	
6260	Construction laborers	6260	Construction laborers	6260	Construction laborers	869	Construction laborers	869	Construction laborers	
6300	Paving, surfacing, and tamping equipment operators	6300	Paving, surfacing, and tamping equipment operators	6300	Paving, surfacing, and tamping equipment operators	594	Paving, surfacing, and tamping equipment operators	594	Paving, surfacing, and tamping equipment operators	
6310	Pile-driver operators	6310	Pile-driver operators	6320	Construction equipment operators except paving, surfacing, and tamping equipment operators	599	Construction trades, n.e.c.	844	Operating engineers	yes
6320	Operating engineers and other construction equipment operators	6320	Operating engineers and other construction equipment operators	6320	Construction equipment operators except paving, surfacing, and tamping equipment operators	844	Operating engineers	844	Operating engineers	
6330	Drywall installers, ceiling tile installers, and tapers	6330	Drywall installers, ceiling tile installers, and tapers	6330	Drywall installers, ceiling tile installers, and 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	
6420	Painters, construction and maintenance	6420	Painters, construction and maintenance	6420	Painters, construction and maintenance	579	Painters, construction and maintenance	579	Painters, construction and maintenance	
6430	Paperhangers	6430	Paperhangers	6430	Paperhangers	583	Paperhangers	583	Paperhangers	
6440	Pipelayers, plumbers, pipefitters, and steamfitters	6440	Pipelayers, plumbers, pipefitters, and steamfitters	6440	Pipelayers, plumbers, pipefitters, and steamfitters	585	Plumbers, pipefitters, and steamfitters	585	Plumbers, pipefitters, and steamfitters	
6460	Plasterers and stucco masons	6460	Plasterers and stucco masons	6460	Plasterers and stucco masons	584	Plasterers	584	Plasterers	
6500	Reinforcing iron and rebar workers	6500	Reinforcing iron and rebar workers	6500	Reinforcing iron and rebar workers	597	Structural metal workers	597	Structural metal workers	
6515	Roofers	6510	Roofers	6510	Roofers	595	Roofers	595	Roofers	
6520	Sheet metal workers	6520	Sheet metal workers	6520	Sheet metal workers	596	Sheetmetal duct installers	596	Sheetmetal duct installers	
6530	Structural iron and steel workers	6530	Structural iron and steel workers	6530	Structural iron and steel workers	597	Structural metal workers	597	Structural metal workers	

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6540	Solar photovoltaic installers	6760	Miscellaneous construction and related workers	6760	Miscellaneous construction workers including septic tank servicers and sewer pipe cleaners	599	Construction trades, n.e.c.	599	Construction trades, n.e.c.	
6600	Helpers, construction trades	6600	Helpers, construction trades	6600	Helpers, construction trades	866	Helpers, construction trades	866	Helpers, construction trades	
6660	Construction and building inspectors	6660	Construction and building inspectors	6660	Construction and building inspectors	035	Construction inspectors	035	Construction inspectors	
6700	Elevator installers and repairers	6700	Elevator installers and repairers	6700	Elevator installers and repairers	543	Elevator installers and repairers	543	Elevator installers and repairers	
6710	Fence erectors	6710	Fence erectors	6710	Fence erectors	599	Construction trades, n.e.c.	599	Construction trades, n.e.c.	
6720	Hazardous materials removal workers	6720	Hazardous materials removal workers	6720	Hazardous materials removal workers	593	Insulation workers	593	Insulation workers	
6730	Highway maintenance workers	6730	Highway maintenance workers	6730	Highway maintenance workers	869	Construction laborers	869	Construction laborers	
6740	Rail-track laying and maintenance equipment operators	6740	Rail-track laying and maintenance equipment operators	6740	Rail-track laying and maintenance equipment operators	889	Laborers, except construction	889	Laborers, except construction	
6750	Septic tank servicers and sewer pipe cleaners	6750	Septic tank servicers and sewer pipe cleaners	6760	Miscellaneous construction workers including septic tank servicers and sewer pipe cleaners	889	Laborers, except construction	599	Construction trades, n.e.c.	yes
6765	Miscellaneous construction and related workers	6760	Miscellaneous construction and related workers	6760	Miscellaneous construction workers including septic tank servicers and sewer pipe cleaners	599	Construction trades, n.e.c.	599	Construction trades, n.e.c.	
6800	Derrick, rotary drill, and service unit operators, oil, gas, and mining	6800	Derrick, rotary drill, and service unit operators, oil, gas, and mining	6800	Derrick, rotary drill, and service unit operators, and roustabouts, oil, gas, and mining	614	Drillers, oil well	614	Drillers, oil well	
6820	Earth drillers, except oil and gas	6820	Earth drillers, except oil and gas	6820	Earth drillers, except oil and gas	598	Drillers, earth	598	Drillers, earth	
6830	Explosives workers, ordnance handling experts, and blasters	6830	Explosives workers, ordnance handling experts, and blasters	6830	Explosives workers, ordnance handling experts, and blasters	615	Explosives workers	615	Explosives workers	
6840	Mining machine operators	6840	Mining machine operators	6840	Mining machine operators	616	Mining machine operators	616	Mining machine operators	

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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.	
6920	Roustabouts, oil and gas	6920	Roustabouts, oil and gas	6800	Derrick, rotary drill, and service unit operators, and roustabouts, oil, gas, and mining	614	Drillers, oil well	614	Drillers, oil well	
6930	Helpers--extraction workers	6930	Helpers--extraction workers	6940	Miscellaneous extraction workers including roof bolters and helpers	869	Construction laborers	617	Mining occupations, n.e.c.	yes
6940	Other extraction workers	6940	Other extraction workers	6940	Miscellaneous extraction workers 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	7010	Computer, automated teller, and office machine repairers	7010	Computer, automated teller, and office machine repairers	525	Data processing equipment repairers	525	Data processing equipment repairers	
7020	Radio and telecommunications equipment installers and repairers	7020	Radio and telecommunications equipment installers and repairers	7020	Radio and 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	Electrical and electronics installers and repairers, transportation equipment	7050	Electrical and electronics installers and repairers, transportation equipment	7100	Electrical and electronics repairers, transportation equipment, and industrial and utility	533	Miscellaneous electrical and electronic equipment repairers	523	Electronic repairers, communications and industrial equipment	yes

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7100	Electrical and electronics repairers, industrial and utility	7100	Electrical and electronics repairers, industrial and utility	7100	Electrical and electronics repairers, transportation equipment, and industrial and utility	523	Electronic repairers, communications and industrial equipment	523	Electronic repairers, communications and industrial equipment	
7110	Electronic equipment installers and repairers, motor vehicles	7110	Electronic equipment installers and repairers, motor vehicles	7110	Electronic equipment installers and repairers, motor vehicles	533	Miscellaneous electrical and electronic equipment repairers	533	Miscellaneous electrical and electronic equipment repairers	
7120	Electronic home entertainment equipment installers and repairers	7120	Electronic home entertainment equipment installers and repairers	7120	Electronic home entertainment equipment installers and repairers	523	Electronic repairers, communications and industrial equipment	523	Electronic repairers, communications and industrial equipment	
7130	Security and fire alarm systems installers	7130	Security and fire alarm systems installers	7130	Security and fire alarm systems installers	575	Electricians	575	Electricians	
7140	Aircraft mechanics and service technicians	7140	Aircraft mechanics and service technicians	7140	Aircraft mechanics and service technicians	508	Aircraft engine mechanics	508	Aircraft engine mechanics	
7150	Automotive body and related repairers	7150	Automotive body and related repairers	7150	Automotive body and related repairers	514	Automobile body and related repairers	514	Automobile body and related repairers	
7160	Automotive glass installers and repairers	7160	Automotive glass installers and repairers	7160	Automotive glass installers and repairers	514	Automobile body and related repairers	514	Automobile body and related repairers	
7200	Automotive service technicians and mechanics	7200	Automotive service technicians and mechanics	7200	Automotive service technicians and mechanics	505	Automobile mechanics	505	Automobile mechanics	
7210	Bus and truck mechanics and diesel engine specialists	7210	Bus and truck mechanics and diesel engine specialists	7210	Bus and truck mechanics and diesel engine specialists	507	Bus, truck, and stationary engine mechanics	507	Bus, truck, and stationary engine mechanics	
7220	Heavy vehicle and mobile equipment service technicians and mechanics	7220	Heavy vehicle and mobile equipment service technicians and mechanics	7220	Heavy vehicle and mobile equipment service technicians and mechanics	516	Heavy equipment mechanics	516	Heavy equipment mechanics	
7240	Small engine mechanics	7240	Small engine mechanics	7240	Small engine mechanics	509	Small engine repairers	509	Small engine repairers	
7260	Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	7260	Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	7260	Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers	516	Heavy equipment mechanics	516	Heavy equipment mechanics	

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
7300	Control and valve installers and repairers	7300	Control and valve installers and repairers	7300	Control and valve installers and repairers	539	Mechanical controls and valve repairers	539	Mechanical controls and valve repairers	
7315	Heating, air conditioning, and refrigeration mechanics and installers	7310	Heating, air conditioning, and refrigeration mechanics and installers	7310	Heating, air conditioning, and refrigeration mechanics and installers	534	Heating, air conditioning, and refrigeration mechanics	534	Heating, air conditioning, and refrigeration mechanics	
7320	Home appliance repairers	7320	Home appliance repairers	7320	Home appliance repairers	526	Household appliance and power tool repairers	526	Household appliance and power tool repairers	
7330	Industrial and refractory machinery mechanics	7330	Industrial and refractory machinery mechanics	7330	Industrial and refractory machinery mechanics	518	Industrial machinery repairers	518	Industrial machinery repairers	
7340	Maintenance and repair workers, general	7340	Maintenance and repair workers, general	7340	Maintenance and repair workers, general	549	Not specified mechanics and repairers	549	Not specified mechanics and repairers	
7350	Maintenance workers, machinery	7350	Maintenance workers, machinery	7350	Maintenance workers, machinery	519	Machinery maintenance occupations	519	Machinery maintenance occupations	
7360	Millwrights	7360	Millwrights	7360	Millwrights	544	Millwrights	544	Millwrights	
7410	Electrical power-line installers and repairers	7410	Electrical power-line installers and repairers	7410	Electrical power-line installers and repairers	577	Electrical power installers and repairers	577	Electrical power installers and repairers	
7420	Telecommunications line installers and repairers	7420	Telecommunications line installers and repairers	7420	Telecommunications line installers and repairers	527	Telephone line installers and repairers	527	Telephone line installers and repairers	
7430	Precision instrument and equipment repairers	7430	Precision instrument and equipment repairers	7430	Precision instrument and equipment repairers	535	Camera, watch, and musical instrument repairers	535	Camera, watch, and musical instrument repairers	
7440	Wind turbine service technicians	7620	Other installation, maintenance, and repair workers	7620	Other installation, maintenance, and repair workers including commercial divers, and signal and track switch repairers	549	Not specified mechanics and repairers	549	Not specified mechanics and repairers	
7510	Coin, vending, and amusement machine servicers and repairers	7510	Coin, vending, and amusement machine servicers and repairers	7510	Coin, vending, and amusement machine servicers and repairers	804	Truck drivers	804	Truck drivers	

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

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7720	Electrical, electronics, and electromechanical assemblers	7720	Electrical, electronics, and electromechanical assemblers	7720	Electrical, electronics, and electromechanical assemblers	785	Assemblers	785	Assemblers	
7730	Engine and other machine assemblers	7730	Engine and other machine assemblers	7730	Engine and other machine assemblers	785	Assemblers	785	Assemblers	
7740	Structural metal fabricators and fitters	7740	Structural metal fabricators and fitters	7740	Structural metal fabricators and fitters	597	Structural metal workers	597	Structural metal workers	
7750	Miscellaneous assemblers and fabricators	7750	Miscellaneous assemblers and fabricators	7750	Miscellaneous assemblers and fabricators	785	Assemblers	785	Assemblers	
7800	Bakers	7800	Bakers	7800	Bakers	687	Bakers	687	Bakers	
7810	Butchers and other meat, poultry, and fish processing workers	7810	Butchers and other meat, poultry, and fish processing workers	7810	Butchers and other meat, poultry, and fish processing workers	686	Butchers and meat cutters	686	Butchers and meat cutters	
7830	Food and tobacco roasting, baking, and drying machine operators and tenders	7830	Food and tobacco roasting, baking, and drying machine operators and tenders	7830	Food and tobacco roasting, baking, and drying machine operators and tenders	763	Roasting and baking machine operators, food	763	Roasting and baking machine operators, food	
7840	Food batchmakers	7840	Food batchmakers	7840	Food batchmakers	688	Food batchmakers	688	Food batchmakers	
7850	Food cooking machine operators and tenders	7850	Food cooking machine operators and tenders	7850	Food cooking machine operators and tenders	769	Slicing and cutting machine operators	769	Slicing and cutting machine operators	
7855	Food processing workers, all other	8960	Production workers, all other	7850	Food cooking machine operators and tenders	779	Machine operators, not specified	769	Slicing and cutting machine operators	yes
7900	Computer control programmers and operators	7900	Computer control programmers and operators	7900	Computer control programmers and operators	233	Tool programmers, numerical control	233	Tool programmers, numerical control	
7920	Extruding and drawing machine setters, operators, and tenders, metal and plastic	7920	Extruding and drawing machine setters, operators, and tenders, metal and plastic	7920	Extruding and drawing machine setters, operators, and tenders, metal and plastic	755	Extruding and forming machine operators	755	Extruding and forming machine operators	
7930	Forging machine setters, operators, and tenders, metal and plastic	7930	Forging machine setters, operators, and tenders, metal and plastic	7930	Forging machine setters, operators, and tenders, metal and plastic	713	Forging machine operators	713	Forging 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
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	<i>Milling and planing machine setters, operators, and tenders, metal and plastic</i>	8020	<i>Milling and planing machine setters, operators, and tenders, metal and plastic</i>	8220	<i>Miscellaneous metal workers and plastic workers including milling and planing machine setters, and multiple machine tool setters, and lay-out workers.</i>	703	<i>Lathe and turning machine set-up operators</i>	726	<i>Wood lathe, routing, and planing machine operators</i>	yes
8030	Machinists	8030	Machinists	8030	Machinists	637	Machinists	637	Machinists	
8040	Metal furnace operators, tenders, pourers, and casters	8040	Metal furnace and kiln operators and tenders	8040	Metal furnace and kiln operators and tenders	766	Furnace, kiln, and oven operators, exc. food	766	Furnace, kiln, and oven operators, exc. food	
8060	Model makers and patternmakers, metal and plastic	8060	Model makers and patternmakers, metal and plastic	8060	Model makers and patternmakers, metal and plastic	645	Patternmakers and model makers, metal	645	Patternmakers and 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	
8120	Multiple machine tool setters, operators, and tenders, metal and plastic	8120	Multiple machine tool setters, operators, and tenders, metal and plastic	8220	Molders and molding machine setters, operators, and tenders, metal and plastic 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.	726	Wood lathe, routing, and planing machine operators	yes
8130	Tool and die makers	8130	Tool and die makers	8130	Tool and die makers	634	Tool and die makers	634	Tool and die makers	
8140	Welding, soldering, and brazing workers	8140	Welding, soldering, and brazing workers	8140	Welding, soldering, and 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	Molders and molding machine setters, operators, and tenders, metal and plastic 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
8220	Metal workers and plastic workers, all other	8220	Metal workers and plastic workers, all other	8220	Miscellaneous metal workers and plastic workers including milling and planing machine setters, and multiple machine tool setters, and lay-out workers.	726	Wood lathe, routing, and planing machine operators	726	Wood lathe, routing, and planing machine operators	
8250	Prepress technicians and workers	8250	Prepress technicians and workers	8250	Prepress technicians and workers	736	Typesetters and compositors	736	Typesetters and compositors	
8255	Printing press operators	8260	Printing machine operators	8260	Printing machine operators	736	Typesetters and compositors	736	Typesetters and compositors	
8256	Print binding and finishing workers	8230	Bookbinders and bindery workers	8230	Bookbinders and bindery workers	679	Bookbinders	679	Bookbinders	
8300	Laundry and dry-cleaning workers	8300	Laundry and dry-cleaning workers	8300	Laundry and dry-cleaning workers	748	Laundry and dry cleaning machine operators	748	Laundry and dry cleaning machine operators	
8310	Pressers, textile, garment, and related materials	8310	Pressers, textile, garment, and related materials	8310	Pressers, textile, garment, and related materials	747	Pressing machine operators	747	Pressing machine operators	
8320	Sewing machine operators	8320	Sewing machine operators	8320	Sewing machine operators	744	Textile sewing machine operators	744	Textile sewing machine operators	
8330	Shoe and leather workers and repairers	8330	Shoe and leather workers and repairers	8330	Shoe and leather workers and repairers	669	Shoe repairers	669	Shoe repairers	
8340	Shoe machine operators and tenders	8340	Shoe machine operators and tenders	8340	Shoe machine operators and tenders	745	Shoe machine operators	745	Shoe machine operators	
8350	Tailors, dressmakers, and sewers	8350	Tailors, dressmakers, and sewers	8350	Tailors, dressmakers, and sewers	666	Dressmakers	666	Dressmakers	
8360	Textile bleaching and dyeing machine operators and tenders	8360	Textile bleaching and dyeing machine operators and tenders	8400	Textile bleaching and dyeing, and cutting machine setters, operators, and tenders	749	Miscellaneous textile machine operators	743	Textile cutting machine operators	yes
8400	Textile cutting machine setters, operators, and tenders	8400	Textile cutting machine setters, operators, and tenders	8400	Textile bleaching and dyeing, and cutting machine setters, operators, and tenders	743	Textile cutting machine operators	743	Textile cutting 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
8410	Textile knitting and weaving machine setters, operators, and tenders	8410	Textile knitting and weaving machine setters, operators, and tenders	8410	Textile knitting and weaving machine setters, operators, and tenders	739	Knitting, looping, taping, and weaving machine operators	739	Knitting, looping, taping, and weaving machine operators	
8420	Textile winding, twisting, and drawing out machine setters, operators, and tenders	8420	Textile winding, twisting, and drawing out machine setters, operators, and tenders	8420	Textile winding, twisting, and drawing out machine setters, operators, and tenders	738	Winding and twisting machine operators	738	Winding and twisting machine operators	
8430	<i>Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers</i>	8430	<i>Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers</i>	8460	<i>Miscellaneous textile, apparel, and furnishings workers except upholsterers</i>	755	<i>Extruding and forming machine operators</i>	749	<i>Miscellaneous textile machine operators</i>	yes
8440	<i>Fabric and apparel patternmakers</i>	8440	<i>Fabric and apparel patternmakers</i>	8460	<i>Miscellaneous textile, apparel, and furnishings workers except upholsterers</i>	645	<i>Patternmakers and model makers, metal</i>	749	<i>Miscellaneous textile machine operators</i>	yes
8450	Upholsterers	8450	Upholsterers	8450	Upholsterers	668	Upholsterers	668	Upholsterers	
8460	<i>Textile, apparel, and furnishings workers, all other</i>	8460	<i>Textile, apparel, and furnishings workers, all other</i>	8460	<i>Miscellaneous textile, apparel, and furnishings workers except upholsterers</i>	749	<i>Miscellaneous textile machine operators</i>	749	<i>Miscellaneous textile machine operators</i>	
8500	Cabinetmakers and bench carpenters	8500	Cabinetmakers and bench carpenters	8500	Cabinetmakers and bench carpenters	657	Cabinet makers and bench carpenters	657	Cabinet makers and bench carpenters	
8510	Furniture finishers	8510	Furniture finishers	8510	Furniture finishers	658	Furniture and wood finishers	658	Furniture and wood finishers	
8520	<i>Model makers and patternmakers, wood</i>	8520	<i>Model makers and patternmakers, wood</i>	8550	<i>Miscellaneous woodworkers including model makers and patternmakers</i>	645	<i>Patternmakers and model makers, metal</i>	733	<i>Miscellaneous woodworking machine operators</i>	yes
8530	Sawing machine setters, operators, and tenders, wood	8530	Sawing machine setters, operators, and tenders, wood	8530	Sawing machine setters, operators, and tenders, wood	727	Sawing machine operators	727	Sawing machine operators	
8540	Woodworking machine setters, operators, and tenders, except sawing	8540	Woodworking machine setters, operators, and tenders, except sawing	8540	Woodworking machine setters, operators, and tenders, except sawing	729	Nailing and tacking machine operators	729	Nailing and tacking 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
8550	Woodworkers, all other	8550	Woodworkers, all other	8550	Miscellaneous woodworkers including model makers and patternmakers	733	Miscellaneous woodworking machine operators	733	Miscellaneous woodworking machine operators	
8600	Power plant operators, distributors, and dispatchers	8600	Power plant operators, distributors, and dispatchers	8600	Power plant operators, distributors, and dispatchers	695	Power plant operators	695	Power plant operators	
8610	Stationary engineers and boiler operators	8610	Stationary engineers and boiler operators	8610	Stationary engineers and boiler operators	696	Stationary engineers	696	Stationary engineers	
8620	Water and wastewater treatment plant and system operators	8620	Water and liquid waste treatment plant and system operators	8620	Water and liquid waste treatment plant and system operators	694	Water and sewage treatment plant operators	694	Water and sewage treatment plant operators	
8630	Miscellaneous plant and system operators	8630	Miscellaneous plant and system operators	8630	Miscellaneous plant and system operators	699	Miscellaneous plant and system operators	699	Miscellaneous plant and system operators	
8640	Chemical processing machine setters, operators, and tenders	8640	Chemical processing machine setters, operators, and tenders	8640	Chemical processing machine setters, operators, and tenders	757	Separating, filtering, and clarifying machine operators	757	Separating, filtering, and clarifying machine operators	
8650	Crushing, grinding, polishing, mixing, and blending workers	8650	Crushing, grinding, polishing, mixing, and blending workers	8650	Crushing, grinding, polishing, mixing, and blending workers	756	Mixing and blending machine operators	756	Mixing and blending machine operators	
8710	Cutting workers	8710	Cutting workers	8710	Cutting workers	769	Slicing and cutting machine operators	769	Slicing and cutting machine operators	
8720	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	8720	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	8720	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	755	Extruding and forming machine operators	755	Extruding and forming machine operators	
8730	Furnace, kiln, oven, drier, and kettle operators and tenders	8730	Furnace, kiln, oven, drier, and kettle operators and tenders	8730	Furnace, kiln, oven, drier, and kettle operators and tenders	766	Furnace, kiln, and oven operators, exc. food	766	Furnace, kiln, and oven operators, exc. food	
8740	Inspectors, testers, sorters, samplers, and weighers	8740	Inspectors, testers, sorters, samplers, and weighers	8740	Inspectors, testers, sorters, samplers, and weighers	799	Graders and sorters, exc. agricultural	799	Graders and sorters, exc. agricultural	
8750	Jewelers and precious stone and metal workers	8750	Jewelers and precious stone and metal workers	8750	Jewelers and precious stone and metal workers	535	Camera, watch, and musical instrument repairers	535	Camera, watch, and musical instrument 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	8760	Medical, dental, and ophthalmic laboratory technicians	8760	Medical, dental, and ophthalmic laboratory technicians	678	Dental laboratory and medical appliance technicians	678	Dental laboratory and medical appliance technicians	
8800	Packaging and filling machine operators and tenders	8800	Packaging and filling machine operators and tenders	8800	Packaging and filling machine operators and tenders	754	Packaging and filling machine operators	754	Packaging and filling machine operators	
8810	Painting workers	8810	Painting workers	8810	Painting workers	759	Painting and paint spraying machine operators	759	Painting and paint 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	<i>Semiconductor processors</i>	8840	<i>Semiconductor processors</i>	8960	<i>Other production workers including semiconductor processors and cooling and freezing equipment operators</i>	779	<i>Machine operators, not specified</i>	779	<i>Machine operators, not specified</i>	
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	Cleaning, washing, and metal pickling equipment operators and tenders	764	Washing, cleaning, and pickling machine operators	764	Washing, cleaning, and pickling machine operators	
8900	<i>Cooling and freezing equipment operators and tenders</i>	8900	<i>Cooling and freezing equipment operators and tenders</i>	8960	<i>Other production workers including semiconductor processors and cooling and freezing equipment operators</i>	779	<i>Machine operators, not specified</i>	779	<i>Machine operators, not specified</i>	
8910	Etchers and engravers	8910	Etchers and engravers	8910	Etchers and engravers	649	Engravers, metal	649	Engravers, metal	
8920	Molders, shapers, and casters, except metal and plastic	8920	Molders, shapers, and casters, except metal and plastic	8920	Molders, shapers, and casters, except metal and plastic	675	Hand molders and shapers, except jewelers	675	Hand molders and shapers, except jewelers	
8930	Paper goods machine setters, operators, and tenders	8930	Paper goods machine setters, operators, and tenders	8930	Paper goods machine setters, operators, and tenders	765	Folding machine operators	765	Folding machine operators	
8940	Tire builders	8940	Tire builders	8940	Tire builders	779	Machine operators, not specified	779	Machine operators, not specified	

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
8950	Helpers--production workers	8950	Helpers--production workers	8950	Helpers--production workers	874	Production helpers	874	Production helpers	
8965	Production workers, all other	8960	Production workers, all other	8960	Other production workers including semiconductor processors and cooling and freezing equipment operators	779	Machine operators, not specified	779	Machine operators, not specified	
9000	Supervisors of transportation and material moving workers	9000	Supervisors, transportation and material moving workers	9000	Supervisors, transportation and material moving workers	803	Supervisors, motor vehicle operators	803	Supervisors, motor vehicle operators	
9030	Aircraft pilots and flight engineers	9030	Aircraft pilots and flight engineers	9030	Aircraft pilots and flight engineers	226	Airplane pilots and navigators	226	Airplane pilots and navigators	
9040	Air traffic controllers and airfield operations specialists	9040	Air traffic controllers and airfield operations specialists	9040	Air traffic controllers and airfield operations specialists	227	Air traffic controllers	227	Air traffic controllers	
9050	Flight attendants	4550	Transportation attendants	4550	Transportation attendants	463	Public transportation attendants	463	Public transportation attendants	
9110	Ambulance drivers and attendants, except emergency medical technicians	9110	Ambulance drivers and attendants, except emergency medical technicians	9110	Ambulance drivers and attendants, except emergency medical technicians	809	Taxicab drivers and chauffeurs	809	Taxicab drivers and chauffeurs	
9120	Bus drivers	9120	Bus drivers	9120	Bus drivers	808	Bus drivers	808	Bus drivers	
9130	Driver/sales workers and truck drivers	9130	Driver/sales workers and truck drivers	9130	Driver/sales workers and truck drivers	804	Truck drivers	804	Truck drivers	
9140	Taxi drivers and chauffeurs	9140	Taxi drivers and chauffeurs	9140	Taxi drivers and chauffeurs	809	Taxicab drivers and chauffeurs	809	Taxicab drivers and chauffeurs	
9150	Motor vehicle operators, all other	9150	Motor vehicle operators, all other	9150	Motor vehicle operators, all other	809	Taxicab drivers and chauffeurs	809	Taxicab drivers and chauffeurs	
9200	Locomotive engineers and operators	9200	Locomotive engineers and operators	9200	Locomotive engineers and operators	824	Locomotive operating occupations	824	Locomotive operating occupations	
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	
9240	Railroad conductors and yardmasters	9240	Railroad conductors and yardmasters	9240	Railroad conductors and yardmasters	823	Railroad conductors and yardmasters	823	Railroad conductors and yardmasters	
9260	Subway, streetcar, and other rail transportation workers	9260	Subway, streetcar, and other rail transportation workers	9260	Subway, streetcar, and other rail transportation workers	824	Locomotive operating occupations	824	Locomotive operating 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
9300	Sailors and marine oilers	9300	Sailors and marine oilers	9300	Sailors and marine oilers, and ship engineers	829	Sailors and deckhands	829	Sailors and deckhands	
9310	Ship and boat captains and operators	9310	Ship and boat captains and operators	9310	Ship and boat captains and operators	829	Sailors and deckhands	829	Sailors and deckhands	
9330	Ship engineers	9330	Ship engineers	9300	Sailors and marine oilers, and ship 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	
9360	Automotive and watercraft service attendants	9360	Service station attendants	9360	Service station attendants	885	Garage and service station related occupations	885	Garage and service station related occupations	
9410	Transportation inspectors	9410	Transportation inspectors	9410	Transportation inspectors	463	Public transportation attendants	463	Public transportation 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
9510	Crane and tower operators	9510	Crane and tower operators	9510	Crane and tower operators	848	Hoist and winch operators	848	Hoist and winch operators	
9520	Dredge, excavating, and loading machine operators	9520	Dredge, excavating, and loading machine operators	9520	Dredge, excavating, and loading machine operators	853	Excavating and loading machine operators	853	Excavating and loading 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 operators	9560	Hoist and winch operators	9560	Conveyor operators and tenders, and hoist and winch operators	848	Hoist and winch operators	848	Hoist and winch operators	
9600	Industrial truck and tractor operators	9600	Industrial truck and tractor operators	9600	Industrial truck and tractor operators	804	Truck drivers	804	Truck drivers	
9610	Cleaners of vehicles and equipment	9610	Cleaners of vehicles and equipment	9610	Cleaners of vehicles and equipment	887	Vehicle washers and equipment cleaners	887	Vehicle washers and equipment cleaners	
9620	Laborers and freight, stock, and material movers, hand	9620	Laborers and freight, stock, and material movers, hand	9620	Laborers and freight, 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	
9650	Pumping station operators	9650	Pumping station operators	9650	Pumping station operators	859	Miscellaneous material moving equipment operators	859	Miscellaneous material moving equipment operators	
9720	Refuse and recyclable material collectors	9720	Refuse and recyclable material collectors	9720	Refuse and recyclable 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	Elevator operators	yes
9750	Material moving workers, all other	9750	Material moving workers, all other	9750	Miscellaneous material moving workers including shuttle car 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
9820	Military enlisted tactical operations and air/weapons specialists and crew members	9820	Military enlisted tactical operations and air/weapons specialists and crew members	9820	Military enlisted tactical operations and air/weapons specialists and crew members	905	Military [‡]	905	Military [‡]	
9830	Military, rank not specified	9830	Military, rank not specified	9830	Military, rank not specified	905	Military [‡]	905	Military [‡]	
9840	Armed Forces*	9840	Armed forces*	9840	Armed Forces*	905	Military [‡]	905	Military [‡]	
<p>†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.</p> <p>‡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).</p> <p>*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.</p> <p>§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.</p>										
Legend										
<i>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).</i>										