

# HEALTH AND RETIREMENT STUDY

2010 Core Data Supplement:  
Industry and Occupation Variables  
Coded with the 2007/2010 Census Classifications  
Final, Version 1.0  
February 2013

Data Description and Usage



# Data Description and Usage

## 1. Overview

In the initial release of the 2010 HRS Core files, items pertaining to industry and occupation were coded using the Census 2000 Classified Index of Industries or the Census 2000 Classified Index of Occupations. In this supplemental file release, these same items are now coded using the 2007 Census Industrial Classification or the 2010 Census Occupational Classification.

To protect the confidentiality of the information that respondents provide and consistent with the 2010 HRS Core Final 2.0, the majority of variables in this file have been masked.

The National Institute on Aging provided funding (NIH U01 AG09740), with supplemental support from the Social Security Administration.

By receiving the data, which have been freely provided, you agree to use them for research and statistical purposes only and make no effort to identify the respondents. In addition, you agree to send us a copy of any publications you produce based on the data. See [Obtaining the Data](#) for additional details.

## 2. File Naming Conventions

The file is named beginning with "H10" for 2010 HRS, followed by "INDOCC" to indicate that it is a supplemental file.

The following extensions are used for the six different types of files that are distributed.

- .DA for data files,
- .SAS for SAS program statements,
- .SPS for SPSS program statements,
- .DO for STATA DO statements,
- .DCT for STATA dictionary statements, and
- .TXT for codebook files.

One of each of these file types is provided for this data file for the 2010 HRS Supplemental (Final, Version 1.0) data release. For example,

- H10INDOCC.DA contains respondent data from section A,
- H10INDOCC.SAS contains corresponding SAS program statements,
- H10INDOCC.SPS contains corresponding SPSS program statements,
- H10INDOCC.DO contains corresponding STATA DO statements,
- H10INDOCC.DCT contains corresponding STATA dictionary statements, and
- H10INDOCC.TXT contains the ASCII codebook.

## 3. Data Files

The 2010 HRS Industry and Occupation Supplemental (Final, Version 1.0) data are distributed in one data file. The file is listed below along with the number of cases (N), number of variables (NV), and the primary identifiers (IDS). The records in the data file are sorted in order by these primary identifiers.

The 2010 HRS Industry and Occupation Supplemental data are provided in ASCII format, with fixed-length records. Use associated SAS, SPSS or STATA program statements to read the data into the analysis package of your choice.

Respondent level files, IDS=HHID PN  
H10INDOCC N=22039 NV= 21

#### **4. Identification Variables**

Identification variables for 2010 HRS are stored in character format.

##### **4A1. HHID - Household Identification Number**

In the initial wave of data collection (in 1992 for the HRS sub-sample, in 1993 for the AHEAD sub-sample, 1998 for the WB and CODA sub-samples, 2004 for the EBB sub-sample, and 2010/2011 for the MBB sub-sample), each sample household was assigned a Household Identifier. HHID is stable across waves of data collection and uniquely identifies the original household and any households derived from that household in subsequent waves of data collection. HHID has six digits.

##### **4A2. PN - Person Number**

In combination with HHID, PN uniquely identifies a respondent or respondent's spouse or partner. PNs are unique within an original household (HHID). The PN assigned to a particular respondent does not change across waves. PN has three digits.

#### **5. Program Statements**

Each data file comes with associated SPSS, SAS, or STATA program statements to read the data. Files containing SPSS statements are named with .SPS extension, those with SAS statements with a .SAS extension, and those with STATA statements with .DO and .DCT extensions.

The statement files are named beginning with the same prefix as the corresponding data file. For example, SAS statements in the file H10Sup.SAS go with the H10Sup.DA data file.

##### **5A. Using the Files with SAS**

To create a SAS system file for a particular dataset, two file types must be present for that dataset -- .SAS program statement files and .DA data files.

To create a SAS system file, load the \*.SAS file into the SAS Program Editor.

If the \*.SAS file is located in "c:\hrs2010\sas" and the data file is located in "c:\hrs2010\data", you can run the file as is. A SAS system file (\*.SD2 or \*.SAS7BDAT) will be saved to directory "c:\hrs2010\sas".

If the files are not located in the specified directories, you will need to edit the \*.SAS file to reflect the proper path names prior to running the file.

## **5B. Using the Files with SPSS**

To create an SPSS system file for a particular dataset, two file types must be present for that dataset -- .SPS program statement files and .DA data files.

To create an SPSS system file, open the \*.SPS file in SPSS as an SPSS Syntax File.

If the \*.SPS file is located in "c:\hrs2010\spss" and the data file is located in "c:\hrs2010\data", you can run the file as is. An SPSS system file (\*.SAV) will be saved to directory "c:\hrs2010\spss".

If the files are not located in the specified directories, you will need to edit the \*.SPS file to reflect the proper path names prior to running the file.

## **5C. Using the Files with STATA**

To use STATA with a particular dataset, the following three file types must be present for that dataset -- .DCT files, .DO files, and .DA data files.

Files with the suffix .DA contain the raw data for STATA to read. Files with the suffix .DCT are STATA dictionaries used by STATA to describe the data. Files with the suffix .DO are short STATA programs ("do files") which you may use to read in the data. Load the .DO file into STATA and then submit it.

If the \*.DO and \*.DCT files are located in "c:\hrs2010\STATA" and the data file is located in "c:\hrs2010\data", you can run the .DO file as is.

If the files are not located in these directories, you must edit the \*.DO and \*.DCT files to reflect the proper path names before you run the files.

Note that the variable names provided in the .DCT files are uppercase. If you prefer lower case variable names, you may wish to convert the .DCT files to lower case prior to use. You may do this by reading the .DCT file into a text or word processing program and changing the case. For instance in Microsoft Word, Edit, Select All, Format, Change Case, lowercase.

## **6. Documentation**

There are several types of documentation available for use with the 2010 HRS Industry and Occupation Supplemental (Final, Version 1.0) data release.

### **6A. Codebook**

The 2010 HRS Industry and Occupation Supplemental Codebook is provided as a single ASCII text file. Each variable has its own codebook entry. The format of the codebook is, for the most part, consistent with all previous releases.

#### **6A1. Variable Names**

To distinguish these variables from those released in the 2010 HRS Core Final (Version 2.0) release, the variable names include a "\_10" at the end of the name to indicate that the variable has been recoded using the 2007 Census Industrial Classification and the 2010 Census Occupational Classification schemes.

Listed below are the names of the variables in the 2010 HRS Industry and Occupation Supplemental file, as well as the number of non-blank responses.

<b>Variable Name</b>	<b>Non-blank responses</b>
HHID	22039
PN	22039
MB024M_10	5759
MJ060M_10	5
MJ062M_10	5
MJ166M_10	6078
MJ168M_10	6235
MK008M_10	1564
MK010M_10	1561
ML013M_10	3168
ML015M_10	3166
MMW202AM_10	662
MMW201AM_10	666
MMW202BM_10	208
MMW201BM_10	208
MMW202CM_10	67
MMW201CM_10	67
MMW202DM_10	52
MMW201DM_10	53
MMW202EM_10	6
MMW201EM_10	6

## **6A2. Other Types of Documentation**

In addition to this document and the codebook, three additional types of documentation are available.

### **6A2a. Overview of HRS Public Data Files for Cross-sectional and Longitudinal Analysis**

This is a thorough document that provides a description of structure and content for all HRS public data files and a detailed explanation for handling the longitudinal nature of the survey. It is located here:

<http://hrsonline.isr.umich.edu/sitedocs/dmgt/OverviewofHRSPublicData.pdf>

## **6B. Master Codes**

A master code file contains detailed codeframes used in several sections of the codebook. The master codes include, occupation codes and industry codes. The master codes appear in the [Appendix](#).

## **6C. 2010 HRS Core Final (Version 2.0) Data Description**

<http://hrsonline.isr.umich.edu/modules/meta/2010/core/desc/h10dd.pdf>

## **7. Obtaining the Data**

### **7A. Registration and Downloading the Data**

HRS data are available for free to researchers and analysts at the HRS Web site. In order to obtain public release data, you must first register at our Web site. Once you have completed the registration process, your username and password will be sent to you via e-mail. Your username and password are required to download any data files.

By registering all users, we are able to document for our sponsors the size and diversity of our user community allowing us to continue to collect these important data. Registered users receive user support, information related to errors in the data, future releases, workshops, and publication lists. The information you provide will not be used for any commercial use, and will not be redistributed to third parties.

### **7B. Conditions of Use**

By registering, you agree to the Conditions of Use governing access to Health and Retirement public release data. You must agree to

- o not attempt to identify respondents
- o not transfer data to third parties except as specified
- o not share your username and password
- o include specified citations in work based on HRS data
- o provide information to us about publications based on HRS data
- o report apparent errors in the HRS data or documentation files
- o notify us of changes in your contact information

For more information concerning privacy issues and conditions of use, please read "Conditions of Use for Public Data Files" and "Privacy and Security Notice" at the Public File Download Area of the HRS Web site.

### **7C. Publications Based on Data**

As part of the data registration process, you agree to include specified citations and to inform HRS of any papers, publications, or presentations based on HRS data. Please send a copy of any publications you produce based on HRS data, with a bibliographical reference, if appropriate, to the address below.

Health and Retirement Study  
Attn: Papers and Publications  
The Institute for Social Research, Room 3050  
P.O. Box 1248  
Ann Arbor, MI (USA) 48106-1248

Alternately, you may contact us by e-mail at [hqsquestions@umich.edu](mailto:hqsquestions@umich.edu) with "Attn: Papers and Publications" in the subject line.

## **8. If You Need to Know More**

This document is intended to serve as a brief overview and to provide guidelines to using the 2010 HRS Industry and Occupation Supplemental (Final, Version 1.0) data. If you have questions or concerns that are not adequately covered here or

on our Web site, or if you have any comments, please contact us. We will do our best to provide answers.

### **8A. HRS Internet Site**

Health and Retirement Study public release data and additional information about the study are available on the Internet. To access the data and other relevant information, point your Web browser to the [HRS Web site](#).

### **8B. Contact Information:**

If you need to contact us, you may do so by one of the methods listed below.

Internet: Help Desk at our Web site

E-mail: [hqsquestions@umich.edu](mailto:hqsquestions@umich.edu)

Postal service:

Health and Retirement Study  
The Institute for Social Research, Room 3050  
The University of Michigan  
P.O. Box 1248  
Ann Arbor, MI 48106-1248

FAX: (734) 647-118



# Appendix

## A. 2010 Census Occupation Codes

Equivalent numeric codes follow the alphabetic codes. Either code may be used, depending on the processing method. The abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

### **Management, Business, and Financial Occupations**

0010. Chief executives  
0020. General and operations managers  
0030. Legislators  
0040. Advertising and promotions managers  
0050. Marketing and sales managers  
0060. Public relations and fundraising managers  
0100. Administrative services managers  
0110. Computer and information systems managers  
0120. Financial managers  
0135. Compensation and benefits managers  
0136. Human resources managers  
0137. Training and development managers  
0140. Industrial production managers  
0150. Purchasing managers  
0160. Transportation, storage, and distribution managers  
0205. Farmers, ranchers, and other agricultural managers  
0220. Construction managers  
0230. Education administrators  
0300. Architectural and engineering managers  
0310. Food service managers  
0325. Funeral service managers  
0330. Gaming managers  
0340. Lodging managers  
0350. Medical and health services managers  
0360. Natural sciences managers  
0400. Postmasters and mail superintendents  
0410. Property, real estate, and community association managers  
0420. Social and community service managers  
0425. Emergency management directors  
0430. Managers, all other

### **Business and Financial Operations Occupations**

0500. Agents and business managers of artists, performers, and athletes  
0510. Buyers and purchasing agents, farm products  
0520. Wholesale and retail buyers, except farm products  
0530. Purchasing agents, except wholesale, retail, and farm products  
0540. Claims adjusters, appraisers, examiners, and investigators  
0565. Compliance officers  
0600. Cost estimators  
0630. Human resources workers  
0640. Compensation, benefits, and job analysis specialists  
0650. Training and development specialists  
0700. Logisticians  
0710. Management analysts

0725. Meeting, convention, and event planners  
0726. Fundraisers  
0735. Market research analysts and marketing specialists  
0740. Business operations specialists, all other  
0800. Accountants and auditors  
0810. Appraisers and assessors of real estate  
0820. Budget analysts  
0830. Credit analysts  
0840. Financial analysts  
0850. Personal financial advisors  
0860. Insurance underwriters  
0900. Financial examiners  
0910. Credit counselors and loan officers  
0930. Tax examiners and collectors, and revenue agents  
0940. Tax preparers  
0950. Financial specialists, all other

### **Computer and mathematical occupations**

1005. Computer and information research scientists  
1006. Computer systems analysts  
1007. Information security analysts  
1010. Computer programmers  
1020. Software developers, applications and systems software  
1030. Web developers  
1050. Computer support specialists  
1060. Database administrators  
1105. Network and computer systems administrators  
1106. Computer network architects  
1107. Computer occupations, all other  
1200. Actuaries  
1210. Mathematicians  
1220. Operations research analysts  
1230. Statisticians  
1240. Miscellaneous mathematical science occupations

### **Architecture and Engineering Occupations**

1300. Architects, except naval  
1310. Surveyors, cartographers, and photogrammetrists  
1320. Aerospace engineers  
1330. Agricultural engineers  
1340. Biomedical engineers  
1350. Chemical engineers  
1360. Civil engineers  
1400. Computer hardware engineers  
1410. Electrical and electronics engineers  
1420. Environmental engineers  
1430. Industrial engineers, including health and safety  
1440. Marine engineers and naval architects  
1450. Materials engineers  
1460. Mechanical engineers  
1500. Mining and geological engineers, including mining safety engineers  
1510. Nuclear engineers  
1520. Petroleum engineers  
1530. Engineers, all other  
1540. Drafters  
1550. Engineering technicians, except drafters  
1560. Surveying and mapping technicians

### **Life, Physical, and Social Science Occupations**

1600. Agricultural and food scientists  
1610. Biological scientists  
1640. Conservation scientists and foresters  
1650. Medical scientists  
1660. Life scientists, all other  
1700. Astronomers and physicists  
1710. Atmospheric and space scientists  
1720. Chemists and materials scientists  
1740. Environmental scientists and geoscientists  
1760. Physical scientists, all other  
1800. Economists  
1815. Survey researchers  
1820. Psychologists  
1830. Sociologists  
1840. Urban and regional planners  
1860. Miscellaneous social scientists and related workers  
1900. Agricultural and food science technicians  
1910. Biological technicians  
1920. Chemical technicians  
1930. Geological and petroleum technicians  
1940. Nuclear technicians  
1950. Social science research assistants  
1965. Miscellaneous life, physical, and social science technicians

### **Community and Social Service Occupations**

2000. Counselors  
2010. Social workers  
2015. Probation officers and correctional treatment specialists  
2016. Social and human service assistants  
2025. Miscellaneous community and social service specialists, including health educators and community health workers  
2040. Clergy  
2050. Directors, religious activities and education  
2060. Religious workers, all other

### **Legal Occupations**

2100. Lawyers  
2105. Judicial law clerks  
2110. Judges, magistrates, and other judicial workers  
2145. Paralegals and legal assistants  
2160. Miscellaneous legal support workers

### **Education, Training, and Library Occupations**

2200. Postsecondary teachers  
2300. Preschool and kindergarten teachers  
2310. Elementary and middle school teachers  
2320. Secondary school teachers  
2330. Special education teachers  
2340. Other teachers and instructors  
2400. Archivists, curators, and museum technicians  
2430. Librarians  
2440. Library technicians  
2540. Teacher assistants  
2550. Other education, training, and library workers

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

2600. Artists and related workers  
2630. Designers  
2700. Actors  
2710. Producers and directors  
2720. Athletes, coaches, umpires, and related workers  
2740. Dancers and choreographers  
2750. Musicians, singers, and related workers  
2760. Entertainers and performers, sports and related workers, all other  
2800. Announcers  
2810. News analysts, reporters and correspondents  
2825. Public relations specialists  
2830. Editors  
2840. Technical writers  
2850. Writers and authors  
2860. Miscellaneous media and communication workers  
2900. Broadcast and sound engineering technicians and radio operators  
2910. Photographers  
2920. Television, video, and motion picture camera operators and editors  
2960. Media and communication equipment workers, all other

## **Healthcare Practitioners and Technical Occupations**

3000. Chiropractors  
3010. Dentists  
3030. Dietitians and nutritionists  
3040. Optometrists  
3050. Pharmacists  
3060. Physicians and surgeons  
3110. Physician assistants  
3120. Podiatrists  
3140. Audiologists  
3150. Occupational therapists  
3160. Physical therapists  
3200. Radiation therapists  
3210. Recreational therapists  
3220. Respiratory therapists  
3230. Speech-language pathologists  
3235. Exercise physiologists  
3245. Therapists, all other  
3250. Veterinarians  
3255. Registered nurses  
3256. Nurse anesthetists  
3257. Nurse midwives  
3258. Nurse practitioners  
3260. Health diagnosing and treating practitioners, all other  
3300. Clinical laboratory technologists and technicians  
3310. Dental hygienists  
3320. Diagnostic related technologists and technicians  
3400. Emergency medical technicians and paramedics  
3420. Health practitioner support technologists and technicians  
3500. Licensed practical and licensed vocational nurses  
3510. Medical records and health information technicians  
3520. Opticians, dispensing  
3535. Miscellaneous health technologists and technicians  
3540. Other healthcare practitioners and technical occupations

**Healthcare Support Occupations**

- 3600. Nursing, psychiatric, and home health aides
- 3610. Occupational therapy assistants and aides
- 3620. Physical therapist assistants and aides
- 3630. Massage therapists
- 3640. Dental assistants
- 3645. Medical assistants
- 3646. Medical transcriptionists
- 3647. Pharmacy aides
- 3648. Veterinary assistants and laboratory animal caretakers
- 3649. Phlebotomists
- 3655. Miscellaneous healthcare support occupations, including medical equipment preparers

**Protective Service Occupations**

- 3700. First-line supervisors of correctional officers
- 3710. First-line supervisors of police and detectives
- 3720. First-line supervisors of fire fighting and prevention workers
- 3730. First-line supervisors of protective service workers, all other
- 3740. Firefighters
- 3750. Fire inspectors
- 3800. Bailiffs, correctional officers, and jailers
- 3820. Detectives and criminal investigators
- 3830. Fish and game wardens
- 3840. Parking enforcement workers
- 3850. Police and sheriff's patrol officers
- 3860. Transit and railroad police
- 3900. Animal control workers
- 3910. Private detectives and investigators
- 3930. Security guards and gaming surveillance officers
- 3940. Crossing guards
- 3945. Transportation security screeners
- 3955. Lifeguards and other recreational, and all other protective service workers

**Food Preparation and Serving Related Occupations**

- 4000. Chefs and head cooks
- 4010. First-line supervisors of food preparation and serving workers
- 4020. Cooks
- 4030. Food preparation workers
- 4040. Bartenders
- 4050. Combined food preparation and serving workers, including fast food
- 4060. Counter attendants, cafeteria, food concession, and coffee shop
- 4110. Waiters and waitresses
- 4120. Food servers, nonrestaurant
- 4130. Dining room and cafeteria attendants and bartender helpers
- 4140. Dishwashers
- 4150. Hosts and hostesses, restaurant, lounge, and coffee shop
- 4160. Food preparation and serving related workers, all other

**Building and Grounds Cleaning and Maintenance Occupations**

- 4200. First-line supervisors of housekeeping and janitorial workers
- 4210. First-line supervisors of landscaping, lawn service, and groundskeeping workers
- 4220. Janitors and building cleaners
- 4230. Maids and housekeeping cleaners

- 4240. Pest control workers
- 4250. Grounds maintenance workers

### **Personal Care and Service Occupations**

- 4300. First-line supervisors of gaming workers
- 4320. First-line supervisors of personal service workers
- 4340. Animal trainers
- 4350. Nonfarm animal caretakers
- 4400. Gaming services workers
- 4410. Motion picture projectionists
- 4420. Ushers, lobby attendants, and ticket takers
- 4430. Miscellaneous entertainment attendants and related workers
- 4460. Embalmers and funeral attendants
- 4465. Morticians, undertakers, and funeral directors
- 4500. Barbers
- 4510. Hairdressers, hairstylists, and cosmetologists
- 4520. Miscellaneous personal appearance workers
- 4530. Baggage porters, bellhops, and concierges
- 4540. Tour and travel guides
- 4600. Childcare workers
- 4610. Personal care aides
- 4620. Recreation and fitness workers
- 4640. Residential advisors
- 4650. Personal care and service workers, all other

### **Sales and Related Occupations**

- 4700. First-line supervisors of retail sales workers
- 4710. First-line supervisors of non-retail sales workers
- 4720. Cashiers
- 4740. Counter and rental clerks
- 4750. Parts salespersons
- 4760. Retail salespersons
- 4800. Advertising sales agents
- 4810. Insurance sales agents
- 4820. Securities, commodities, and financial services sales agents
- 4830. Travel agents
- 4840. Sales representatives, services, all other
- 4850. Sales representatives, wholesale and manufacturing
- 4900. Models, demonstrators, and product promoters
- 4920. Real estate brokers and sales agents
- 4930. Sales engineers
- 4940. Telemarketers
- 4950. Door-to-door sales workers, news and street vendors, and related workers
- 4965. Sales and related workers, all other

### **Office and Administrative Support Occupations**

- 5000. First-line supervisors of office and administrative support workers
- 5010. Switchboard operators, including answering service
- 5020. Telephone operators
- 5030. Communications equipment operators, all other
- 5100. Bill and account collectors
- 5110. Billing and posting clerks
- 5120. Bookkeeping, accounting, and auditing clerks
- 5130. Gaming cage workers
- 5140. Payroll and timekeeping clerks
- 5150. Procurement clerks

5160. Tellers  
5165. Financial clerks, all other  
5200. Brokerage clerks  
5210. Correspondence clerks  
5220. Court, municipal, and license clerks  
5230. Credit authorizers, checkers, and clerks  
5240. Customer service representatives  
5250. Eligibility interviewers, government programs  
5260. File Clerks  
5300. Hotel, motel, and resort desk clerks  
5310. Interviewers, except eligibility and loan  
5320. Library assistants, clerical  
5330. Loan interviewers and clerks  
5340. New accounts clerks  
5350. Order clerks  
5360. Human resources assistants, except payroll and timekeeping  
5400. Receptionists and information clerks  
5410. Reservation and transportation ticket agents and travel clerks  
5420. Information and record clerks, all other  
5500. Cargo and freight agents  
5510. Couriers and messengers  
5520. Dispatchers  
5530. Meter readers, utilities  
5540. Postal service clerks  
5550. Postal service mail carriers  
5560. Postal service mail sorters, processors, and processing machine operators  
5600. Production, planning, and expediting clerks  
5610. Shipping, receiving, and traffic clerks  
5620. Stock clerks and order fillers  
5630. Weighers, measurers, checkers, and samplers, recordkeeping  
5700. Secretaries and administrative assistants  
5800. Computer operators  
5810. Data entry keyers  
5820. Word processors and typists  
5830. Desktop publishers  
5840. Insurance claims and policy processing clerks  
5850. Mail clerks and mail machine operators, except postal service  
5860. Office clerks, general  
5900. Office machine operators, except computer  
5910. Proofreaders and copy markers  
5920. Statistical assistants  
5940. Office and administrative support workers, all other

#### **Farming, Fishing, and Forestry Occupations**

6005. First-line supervisors of farming, fishing, and forestry workers  
6010. Agricultural inspectors  
6020. Animal breeders  
6040. Graders and sorters, agricultural products  
6050. Miscellaneous agricultural workers  
6100. Fishers and related fishing workers  
6110. Hunters and trappers  
6120. Forest and conservation workers  
6130. Logging workers

#### **Construction and Extraction Occupations**

6200. First-line supervisors of construction trades and extraction workers  
6210. Boilermakers

6220. Brickmasons, blockmasons, and stonemasons  
6230. Carpenters  
6240. Carpet, floor, and tile installers and finishers  
6250. Cement masons, concrete finishers, and terrazzo workers  
6260. Construction laborers  
6300. Paving, surfacing, and tamping equipment operators  
6310. Pile-driver operators  
6320. Operating engineers and other construction equipment operators  
6330. Drywall installers, ceiling tile installers, and tapers  
6355. Electricians  
6360. Glaziers  
6400. Insulation workers  
6420. Painters, construction and maintenance  
6430. Paperhangers  
6440. Pipelayers, plumbers, pipefitters, and steamfitters  
6460. Plasterers and stucco masons  
6500. Reinforcing iron and rebar workers  
6515. Roofers  
6520. Sheet metal workers  
6530. Structural iron and steel workers  
6540. Solar photovoltaic installers  
6600. Helpers, construction trades  
6660. Construction and building inspectors  
6700. Elevator installers and repairers  
6710. Fence erectors  
6720. Hazardous materials removal workers  
6730. Highway maintenance workers  
6740. Rail-track laying and maintenance equipment operators  
6750. Septic tank servicers and sewer pipe cleaners  
6765. Miscellaneous construction and related workers  
6800. Derrick, rotary drill, and service unit operators, oil, gas, and mining  
6820. Earth drillers, except oil and gas  
6830. Explosives workers, ordnance handling experts, and blasters  
6840. Mining machine operators  
6910. Roof bolters, mining  
6920. Roustabouts, oil and gas  
6930. Helpers--extraction workers  
6940. Other extraction workers

### **Installation, Maintenance, and Repair Occupations**

7000. First-line supervisors of mechanics, installers, and repairers  
7010. Computer, automated teller, and office machine repairers  
7020. Radio and telecommunications equipment installers and repairers  
7030. Avionics technicians  
7040. Electric motor, power tool, and related repairers  
7050. Electrical and electronics installers and repairers, transportation equipment  
7100. Electrical and electronics repairers, industrial and utility  
7110. Electronic equipment installers and repairers, motor vehicles  
7120. Electronic home entertainment equipment installers and repairers  
7130. Security and fire alarm systems installers  
7140. Aircraft mechanics and service technicians  
7150. Automotive body and related repairers  
7160. Automotive glass installers and repairers  
7200. Automotive service technicians and mechanics  
7210. Bus and truck mechanics and diesel engine specialists  
7220. Heavy vehicle and mobile equipment service technicians and mechanics



7240. Small engine mechanics  
7260. Miscellaneous vehicle and mobile equipment mechanics, installers, and repairers  
7300. Control and valve installers and repairers  
7315. Heating, air conditioning, and refrigeration mechanics and installers  
7320. Home appliance repairers  
7330. Industrial and refractory machinery mechanics  
7340. Maintenance and repair workers, general  
7350. Maintenance workers, machinery  
7360. Millwrights  
7410. Electrical power-line installers and repairers  
7420. Telecommunications line installers and repairers  
7430. Precision instrument and equipment repairers  
7440. Wind turbine service technicians  
7510. Coin, vending, and amusement machine servicers and repairers  
7520. Commercial divers  
7540. Locksmiths and safe repairers  
7550. Manufactured building and mobile home installers  
7560. Riggers  
7600. Signal and track switch repairers  
7610. Helpers--installation, maintenance, and repair workers  
7630. Other installation, maintenance, and repair workers

### **Production Occupations**

7700. First-line supervisors of production and operating workers  
7710. Aircraft structure, surfaces, rigging, and systems assemblers  
7720. Electrical, electronics, and electromechanical assemblers  
7730. Engine and other machine assemblers  
7740. Structural metal fabricators and fitters  
7750. Miscellaneous assemblers and fabricators  
7800. Bakers  
7810. Butchers and other meat, poultry, and fish processing workers  
7830. Food and tobacco roasting, baking, and drying machine operators and tenders  
7840. Food batchmakers  
7850. Food cooking machine operators and tenders  
7855. Food processing workers, all other  
7900. Computer control programmers and operators  
7920. Extruding and drawing machine setters, operators, and tenders, metal and plastic  
7930. Forging machine setters, operators, and tenders, metal and plastic  
7940. Rolling machine setters, operators, and tenders, metal and plastic  
7950. Cutting, punching, and press machine setters, operators, and tenders, metal and plastic  
7960. Drilling and boring machine tool setters, operators, and tenders, metal and plastic  
8000. Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic  
8010. Lathe and turning machine tool setters, operators, and tenders, metal and plastic  
8020. Milling and planing machine setters, operators, and tenders, metal and plastic  
8030. Machinists  
8040. Metal furnace operators, tenders, pourers, and casters  
8060. Model makers and patternmakers, metal and plastic  
8100. Molders and molding machine setters, operators, and tenders, metal and plastic

8120. Multiple machine tool setters, operators, and tenders, metal and plastic  
8130. Tool and die makers  
8140. Welding, soldering, and brazing workers  
8150. Heat treating equipment setters, operators, and tenders, metal and plastic  
8160. Layout workers, metal and plastic  
8200. Plating and coating machine setters, operators, and tenders, metal and plastic  
8210. Tool grinders, filers, and sharpeners  
8220. Metal workers and plastic workers, all other  
8250. Prepress technicians and workers  
8255. Printing press operators  
8256. Print binding and finishing workers  
8300. Laundry and dry-cleaning workers  
8310. Pressers, textile, garment, and related materials  
8320. Sewing machine operators  
8330. Shoe and leather workers and repairers  
8340. Shoe machine operators and tenders  
8350. Tailors, dressmakers, and sewers  
8360. Textile bleaching and dyeing machine operators and tenders  
8400. Textile cutting machine setters, operators, and tenders  
8410. Textile knitting and weaving machine setters, operators, and tenders  
8420. Textile winding, twisting, and drawing out machine setters, operators, and tenders  
8430. Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers  
8440. Fabric and apparel patternmakers  
8450. Upholsterers  
8460. Textile, apparel, and furnishings workers, all other  
8500. Cabinetmakers and bench carpenters  
8510. Furniture finishers  
8520. Model makers and patternmakers, wood  
8530. Sawing machine setters, operators, and tenders, wood  
8540. Woodworking machine setters, operators, and tenders, except sawing  
8550. Woodworkers, all other  
8600. Power plant operators, distributors, and dispatchers  
8610. Stationary engineers and boiler operators  
8620. Water and wastewater treatment plant and system operators  
8630. Miscellaneous plant and system operators  
8640. Chemical processing machine setters, operators, and tenders  
8650. Crushing, grinding, polishing, mixing, and blending workers  
8710. Cutting workers  
8720. Extruding, forming, pressing, and compacting machine setters, operators, and tenders  
8730. Furnace, kiln, oven, drier, and kettle operators and tenders  
8740. Inspectors, testers, sorters, samplers, and weighers  
8750. Jewelers and precious stone and metal workers  
8760. Medical, dental, and ophthalmic laboratory technicians  
8800. Packaging and filling machine operators and tenders  
8810. Painting workers  
8830. Photographic process workers and processing machine operators  
8840. Semiconductor processors  
8850. Adhesive bonding machine operators and tenders  
8860. Cleaning, washing, and metal pickling equipment operators and tenders  
8900. Cooling and freezing equipment operators and tenders  
8910. Etchers and engravers  
8920. Molders, shapers, and casters, except metal and plastic  
8930. Paper goods machine setters, operators, and tenders

- 8940. Tire builders
- 8950. Helpers--production workers
- 8965. Production workers, all other

### **Transportation and Material Moving Occupations**

- 9000. Supervisors of transportation and material moving workers
- 9030. Aircraft pilots and flight engineers
- 9040. Air traffic controllers and airfield operations specialists
- 9050. Flight attendants
- 9110. Ambulance drivers and attendants, except emergency medical technicians
- 9120. Bus drivers
- 9130. Driver/sales workers and truck drivers
- 9140. Taxi drivers and chauffeurs
- 9150. Motor vehicle operators, all other
- 9200. Locomotive engineers and operators
- 9230. Railroad brake, signal, and switch operators
- 9240. Railroad conductors and yardmasters
- 9260. Subway, streetcar, and other rail transportation workers
- 9300. Sailors and marine oilers
- 9310. Ship and boat captains and operators
- 9330. Ship engineers
- 9340. Bridge and lock tenders
- 9350. Parking lot attendants
- 9360. Automotive and watercraft service attendants
- 9410. Transportation inspectors
- 9415. Transportation attendants, except flight attendants
- 9420. Other transportation workers
- 9500. Conveyor operators and tenders
- 9510. Crane and tower operators
- 9520. Dredge, excavating, and loading machine operators
- 9560. Hoist and winch operators
- 9600. Industrial truck and tractor operators
- 9610. Cleaners of vehicles and equipment
- 9620. Laborers and freight, stock, and material movers, hand
- 9630. Machine feeders and offbearers
- 9640. Packers and packagers, hand
- 9650. Pumping station operators
- 9720. Refuse and recyclable material collectors
- 9730. Mine shuttle car operators
- 9740. Tank car, truck, and ship loaders
- 9750. Material moving workers, all other

### **Military Specific Occupations**

- 9800. Military officer special and tactical operations leaders
- 9810. First-line enlisted military supervisors
- 9820. Military enlisted tactical operations and air/weapons specialists and crew members
- 9830. Military, rank not specified
  
- 9920. Unemployed, with no work experience in the last 5 years or earlier or never worked
  
- 999. DK; NA; Don't know; Not ascertained

*Source: U.S. Census Bureau*

## **B. 2010 Census Industry Codes**

Equivalent numeric codes follow the alphabetic codes. Either code may be used, depending on the processing method. Abbreviation "pt" means "part" and "n.e.c." means "not elsewhere classified."

### **Agriculture, forestry, fishing, and hunting**

- 0170. Crop production
- 0180. Animal production
- 0190. Forestry, except logging
- 0270. Logging
- 0280. Fishing, hunting, and trapping
- 0290. Support activities for agriculture and forestry

### **Mining, quarrying, and oil and gas extraction**

- 0370. Oil and gas extraction
- 0380. Coal mining
- 0390. Metal ore mining
- 0470. Nonmetallic mineral mining and quarrying
- 0480. Not specified type of mining
- 0490. Support activities for mining

### **Construction**

- 0770. Construction

### **Manufacturing**

- 1070. Animal food, grain, and oilseed milling
- 1080. Sugar and confectionery products
- 1090. Fruit and vegetable preserving and specialty food manufacturing
- 1170. Dairy product manufacturing
- 1180. Animal slaughtering and processing
- 1190. Retail bakeries
- 1270. Bakeries, except retail
- 1280. Seafood and other miscellaneous foods, n.e.c.\*
- 1290. Not specified food industries
- 1370. Beverage manufacturing
- 1390. Tobacco manufacturing
- 1470. Fiber, yarn, and thread mills
- 1480. Fabric mills, except knitting mills
- 1490. Textile and fabric finishing and coating mills
- 1570. Carpet and rug mills
- 1590. Textile product mills, except carpet and rug
- 1670. Knitting fabric mills, and apparel knitting mills
- 1680. Cut and sew apparel manufacturing
- 1690. Apparel accessories and other apparel manufacturing
- 1770. Footwear manufacturing
- 1790. Leather tanning and finishing and other allied products manufacturing
- 1870. Pulp, paper, and paperboard mills
- 1880. Paperboard containers and boxes
- 1890. Miscellaneous paper and pulp products
- 1990. Printing and related support activities
- 2070. Petroleum refining
- 2090. Miscellaneous petroleum and coal products

2170. Resin, synthetic rubber and fibers, and filaments manufacturing  
2180. Agricultural chemical manufacturing  
2190. Pharmaceutical and medicine manufacturing  
2270. Paint, coating, and adhesive manufacturing  
2280. Soap, cleaning compound, and cosmetics manufacturing  
2290. Industrial and miscellaneous chemicals  
2370. Plastics product manufacturing  
2380. Tire manufacturing  
2390. Rubber product, except tire, manufacturing  
2470. Pottery, ceramics, and plumbing fixture manufacturing  
2480. Structural clay product manufacturing  
2490. Glass and glass product manufacturing  
2570. Cement, concrete, lime, and gypsum product manufacturing  
2590. Miscellaneous nonmetallic mineral product manufacturing  
2670. Iron and steel mills and steel product manufacturing  
2680. Aluminum production and processing  
2690. Nonferrous metal (except aluminum) production and processing  
2770. Foundries  
2780. Metal forgings and stampings  
2790. Cutlery and hand tool manufacturing  
2870. Structural metals, and boiler, tank, and shipping container manufacturing  
2880. Machine shops; turned product; screw, nut, and bolt manufacturing  
2890. Coating, engraving, heat treating and allied activities  
2970. Ordnance  
2980. Miscellaneous fabricated metal products manufacturing  
2990. Not specified metal industries  
3070. Agricultural implement manufacturing  
3080. Construction, and mining and oil and gas field machinery manufacturing  
3090. Commercial and service industry machinery manufacturing  
3170. Metalworking machinery manufacturing  
3180. Engines, turbines, and power transmission equipment manufacturing  
3190. Machinery manufacturing, n.e.c.\*  
3290. Not specified machinery manufacturing  
3360. Computer and peripheral equipment manufacturing  
3370. Communications, and audio and video equipment manufacturing  
3380. Navigational, measuring, electromedical, and control instruments manufacturing  
3390. Electronic component and product manufacturing, n.e.c.\*  
3470. Household appliance manufacturing  
3490. Electrical lighting and electrical equipment manufacturing, and other electrical component manufacturing, n.e.c.\*  
3570. Motor vehicles and motor vehicle equipment manufacturing  
3580. Aircraft and parts manufacturing  
3590. Aerospace product and parts manufacturing  
3670. Railroad rolling stock manufacturing  
3680. Ship and boat building  
3690. Other transportation equipment manufacturing  
3770. Sawmills and wood preservation  
3780. Veneer, plywood, and engineered wood products  
3790. Prefabricated wood buildings and mobile homes  
3870. Miscellaneous wood products  
3890. Furniture and fixtures manufacturing  
3890. Furniture and related product manufacturing  
3960. Medical equipment and supplies manufacturing  
3970. Sporting and athletic goods, and doll, toy and game manufacturing  
3980. Miscellaneous manufacturing, n.e.c.\*  
3990. Not specified manufacturing industries

**Wholesale trade**

- 4070. Motor vehicles, parts and supplies, merchant wholesalers
- 4080. Furniture and home furnishing, merchant wholesalers
- 4090. Lumber and other construction materials, merchant wholesalers
- 4170. Professional and commercial equipment and supplies, merchant wholesalers
- 4180. Metals and minerals, except petroleum, merchant wholesalers
- 4190. Electrical and electronic goods, merchant wholesalers
- 4260. Hardware, plumbing and heating equipment, and supplies, merchant wholesalers
- 4270. Machinery, equipment, and supplies, merchant wholesalers
- 4280. Recyclable material, merchant wholesalers
- 4290. Miscellaneous durable goods, merchant wholesalers
- 4370. Paper and paper products, merchant wholesalers
- 4380. Drugs, sundries, and chemical and allied products, merchant wholesalers
- 4390. Apparel, fabrics, and notions, merchant wholesalers
- 4470. Groceries and related products, merchant wholesalers
- 4480. Farm product raw materials, merchant wholesalers
- 4490. Petroleum and petroleum products, merchant wholesalers
- 4560. Alcoholic beverages, merchant wholesalers
- 4570. Farm supplies, merchant wholesalers
- 4580. Miscellaneous nondurable goods, merchant wholesalers
- 4585. Wholesale electronic markets, agents and brokers
- 4590. Not specified wholesale trade

**Retail trade**

- 4670. Automobile dealers
- 4680. Other motor vehicle dealers
- 4690. Auto parts, accessories, and tire stores
- 4770. Furniture and home furnishings stores
- 4780. Household appliance stores
- 4790. Radio, TV, and computer stores
- 4870. Building material and supplies dealers
- 4880. Hardware stores
- 4890. Lawn and garden equipment and supplies stores
- 4970. Grocery stores
- 4980. Specialty food stores
- 4990. Beer, wine, and liquor stores
- 5070. Pharmacies and drug stores
- 5080. Health and personal care, except drug, stores
- 5090. Gasoline stations
- 5170. Clothing stores
- 5180. Shoe stores
- 5190. Jewelry, luggage, and leather goods stores
- 5270. Sporting goods, camera, and hobby and toy stores
- 5280. Sewing, needlework, and piece goods stores
- 5290. Music stores
- 5370. Book stores and news dealers
- 5380. Department stores and discount stores
- 5390. Miscellaneous general merchandise stores
- 5470. Retail florists
- 5480. Office supplies and stationery stores
- 5490. Used merchandise stores
- 5570. Gift, novelty, and souvenir shops
- 5580. Miscellaneous retail stores
- 5590. Electronic shopping
- 5591. Electronic auctions

5592. Mail order houses  
5670. Vending machine operators  
5680. Fuel dealers  
5690. Other direct selling establishments  
5790. Not specified retail trade

### **Transportation and warehousing**

6070. Air transportation  
6080. Rail transportation  
6090. Water transportation  
6170. Truck transportation  
6180. Bus service and urban transit  
6190. Taxi and limousine service  
6270. Pipeline transportation  
6280. Scenic and sightseeing transportation  
6290. Services incidental to transportation  
6370. Postal Service  
6380. Couriers and messengers  
6390. Warehousing and storage

### **Utilities**

0570. Electric power generation, transmission, and distribution  
0580. Natural gas distribution  
0590. Electric and gas, and other combinations  
0670. Water, steam, air-conditioning, and irrigation systems  
0680. Sewage treatment facilities  
0690. Not specified utilities

### **Information**

6470. Newspaper publishers  
6480. Periodical, book, and directory publishers  
6490. Software publishers  
6570. Motion pictures and video industries  
6590. Sound recording industries  
6670. Broadcasting, except Internet  
6670. Radio and television broadcasting and cable subscription programming  
6672. Internet publishing and broadcasting and web search portals  
6680. Wired telecommunications carriers  
6690. Other telecommunications services  
6695. Data processing, hosting, and related services  
6770. Libraries and archives  
6780. Other information services

### **Finance and insurance**

6870. Banking and related activities  
6880. Savings institutions, including credit unions  
6890. Non-depository credit and related activities  
6970. Securities, commodities, funds, trusts, and other financial investments  
6990. Insurance  
6990. Insurance carriers and related activities

### **Real estate and rental and leasing**

7070. Real estate  
7080. Automotive equipment rental and leasing  
7170. Video tape and disk rental  
7180. Other consumer goods rental

7190. Commercial, industrial, and other intangible assets rental and leasing

**Professional and technical services**

7270. Legal services  
7280. Accounting, tax preparation, bookkeeping, and payroll services  
7290. Architectural, engineering, and related services  
7370. Specialized design services  
7380. Computer systems design and related services  
7390. Management, scientific, and technical consulting services  
7460. Scientific research and development services  
7470. Advertising and related services  
7480. Veterinary services  
7490. Other professional, scientific, and technical services

**Management, administrative and waste services**

7570. Management of companies and enterprises  
7580. Employment services  
7590. Business support services  
7670. Travel arrangements and reservation services  
7680. Investigation and security services  
7690. Services to buildings and dwellings  
7770. Landscaping services  
7780. Other administrative and other support services  
7790. Waste management and remediation services

**Educational services**

7860. Elementary and secondary schools  
7870. Colleges and universities, including junior colleges  
7880. Business, technical, and trade schools and training  
7890. Other schools and instruction, and educational support services

**Health care and social assistance**

7970. Offices of physicians  
7980. Offices of dentists  
7990. Offices of chiropractors  
8070. Offices of optometrists  
8080. Offices of other health practitioners  
8090. Outpatient care centers  
8170. Home health care services  
8180. Other health care services  
8270. Nursing care facilities  
8290. Residential care facilities, without nursing  
8190. Hospitals  
8370. Individual and family services  
8380. Community food and housing, and emergency services  
8390. Vocational rehabilitation services  
8470. Child day care services

**Arts, entertainment, and recreation**

8560. Independent artists, performing arts, spectator sports, and related industries  
8570. Museums, art galleries, historical sites, and similar institutions  
8580. Bowling centers  
8590. Other amusement, gambling, and recreation industries



**Accommodation and food services**

- 8660. Traveler accommodation
- 8670. Recreational vehicle parks and camps, and rooming and boarding houses
- 8680. Restaurants and other food services
- 8690. Drinking places, alcoholic beverages

**Other services**

- 8770. Automotive repair and maintenance
- 8780. Car washes
- 8790. Electronic and precision equipment repair and maintenance
- 8870. Commercial and industrial machinery and equipment repair and maintenance
- 8880. Personal and household goods repair and maintenance
- 8890. Footwear and leather goods repair
- 8970. Barber shops
- 8980. Beauty salons
- 8990. Nail salons and other personal care services
- 9070. Drycleaning and laundry services
- 9080. Funeral homes, and cemeteries and crematories
- 9090. Other personal services
- 9160. Religious organizations
- 9170. Civic, social, advocacy organizations, and grantmaking and giving services
- 9180. Labor unions
- 9190. Business, professional, political, and similar organizations
- 9290. Private households

**Public administration**

- 9370. Executive offices and legislative bodies
- 9380. Public finance activities
- 9390. Other general government and support
- 9470. Justice, public order, and safety activities
- 9480. Administration of human resource programs
- 9490. Administration of environmental quality and housing programs
- 9570. Administration of economic programs and space research
- 9590. National security and international affairs

9999. DK; NA; Don't know; Not ascertained