

Instructions for Creating 1990-2000 Industry Crosswalks, Using the Industry Crosswalk Template

May 15, 2003

Introduction

On this website you will find national-level industry and occupation (I&O) crosswalks that provide 1990 Census I&O data converted into their equivalent Census 2000 categories, and a comparison of these 1990 data to 2000 data. Data users may want to do similar comparisons for sub-national geographic areas, such as states or counties. Using the “Template” described in these instructions, data users can apply national conversion factors to 1990 data for any geographic areas (see the “warning” below, however). The instructions below assume that a data user trying to follow these instructions is familiar with the Microsoft Office Suite, including Excel spreadsheets, but is not completely familiar with the Census Bureau’s data sets as found on our American FactFinder (AFF) website. You can use these instructions to create other spreadsheets instead of Excel, but you may have to make formatting adjustments not described here.

These instructions also work best if you use Microsoft Internet Explorer to download data from the AFF. These instructions will explain some differences in other Internet browsers, but it is virtually impossible to anticipate all the variations that different browsers can cause. **We strongly recommend that you first download the template and print these instructions**, and then match the illustrations of each step to what you see on your own computer screen to be sure you are at the right place. Note, however, that the Census Bureau changes the appearance of the AFF pages at times, so what you see on your screen may not match exactly what is shown in these instructions.

AFF now provides data from both the 1990 Census and Census 2000. The data sets used to display I&O data for all states are the 1990 Summary Tape File 3 (STF-3) and 2000 Summary File 3 (SF-3). The Census 2000 SF-3 on the AFF shows I&O data in “Detailed Tables” and “Quick Tables,” which include a “Demographic Profile of Economic Characteristics.” The Profile provides a subset of the categories found in the detailed tables.

For industry and occupation data, however, you cannot compare the categories directly across the two years. The wording of the categories is different, and, even when the words *appear* to be the same, the definitions of the categories are sometimes different. For example, major parts of “Retail trade” and “Entertainment and recreation services” were defined differently in 1990 than in 2000, even though these words appear in industry tables from both censuses. These differences were caused by the revisions to the North American Industry Classification System (NAICS) and to the Standard Occupational Classification (SOC). The Census 2000 I&O categories were derived from these two standard classifications, respectively.

The crosswalks described in these instructions will convert the 1990 STF-3 data to a 2000 basis by redistributing them into the 2000 SF-3 categories. The crosswalks perform this comparison and calculate the changes from 1990 to 2000 according to the Census 2000 SF-3 categories. At the same time they calculate similar comparisons for the categories shown in the 2000 “Quick Tables.”

Warning. The formulas contained within this crosswalk template are based on nationwide changes between 1990 and 2000 categories, as measured by two sources: the Census 2000 *Classified Index of Industries*, and a sample of responses from the 1990 Census that were “double-coded” into both the 1990 and 2000 Census categories. Different crosswalks could be created based on many different variables, including geography, sex, and race. For example, the crosswalk for industrial and occupational distributions is likely different in New York compared to Kansas, and for men compared to women. To create many different crosswalks depending on all characteristics, however, would require a very large sample controlled for all these variables. Neither financial nor human resources were available to create and analyze such a large sample. For this reason, data users using this template will have to apply the same adjustment factors and distributions to all levels of geography, both sexes, and all other characteristics, even though we know this is not a perfect method for comparing I&O data in all circumstances.

It is also possible to convert the 2000 categories into those for 1990 in order to make comparisons over time. We recommend against this conversion for two reasons: 1) the conversion factors used in these crosswalks were based on a sample of responses from the 1990 Census that were re-coded into the 2000 classifications¹; and 2) intuitively it seems better to move forward to the present and express the labor force of 1990 in 2000 terms, since Census 2000 is more up-to-date.

¹ A similar sample from Census 2000 is still being re-coded, but is not yet available for analysis.

Instructions

Part 1: Getting 1990 and 2000 Industry Data from the Census Bureau Website

- Go to the Census Bureau Home Page <http://www.census.gov> (Figure 1 below)
 - Click on American FactFinder on the left side of the Home page.

Figure 1 (note that this and other web pages may change from time to time):

U.S. Census Bureau
United States Department of Commerce

Race & Hispanic Origin Estimates

Subjects A to Z
A B C D E F G H I
J K L M N O P Q
R S T U V W X Y Z

New on the Site

Search

American FactFinder

Access Tools

Jobs@Census

Catalog

Publications (PDF)

Related Sites

United States Census 2000
Your Gateway to Census 2000 ·
Summary File 4 - State by state release in progress ·
Summary File 3 (SF 3)

People [Estimates](#) · [2001 Area Profiles](#) · [Projections](#) · [Income](#) · [Poverty](#) ·
[International](#) · [Genealogy](#) · [Housing](#)

Business [Economic Census](#) · [Help with your 2002 form](#) · [Government](#) · [E-Stats](#)
· [NAICS](#) · [Foreign Trade](#)

Geography [Maps](#) · [TIGER](#) · [Gazetteer](#)

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[About the Bureau](#)

Special Topics [Census Calendar](#) · [The 1930 Census](#) · [Our Centennial](#) · [For Teachers](#)
· [American Community Survey](#) · [Statistical Abstract](#) · [FedStats](#)

ECONOMIC CENSUS
HELP WITH YOUR FORM

United States Census 2000 now on DVD!
SUMMARY FILE 3

Population Clocks
U.S. **291,272,984**
World **6,299,834,457**
14:39 EDT Jun 18, 2003

State & County QuickFacts

Select a state

Go!

Latest Economic Indicators

Housing Starts

FOIA | [Privacy Statement](#) | [Confidentiality](#) | [Quality](#) | [Accessibility](#) | [Contact Us](#)

USCENSUSBUREAU
Helping You Make Informed Decisions

Start by getting the 1990 data, which we will adjust to make them comparable to the 2000 data:

2. American FactFinder Page (Figure 2)

- Under “Data Sets” near the center of the page, click on “1990 Summary Tape File 3.”

Figure 2:

U.S. Census Bureau **American FactFinder**

[Main](#) | [Search](#) | [Feedback](#) | [FAQs](#) | [Glossary](#) | [Help](#)

! American FactFinder will be unavailable from 8pm Thursday, February 27th until 1am Friday, February 28th for system maintenance. All times are Eastern Standard Time. We apologize for any inconvenience.

search

keyword
 geography

-- or --

Enter a street address to find Census 2000 data

What's New

- [New Features in American FactFinder](#)
- [Summary File 2 Final National Release](#)
- [Population Estimates for 2002](#)
- [Guam Summary File Correction](#) [more...](#)

Items of Interest

- [Census 2000 Gateway](#)
- [Census 2000 Release Schedule](#)
- [Census 2000 Notes and Errata \(PDF - 1.9 MB\)](#) [more...](#)

About this Site

- [Site Tour](#)

Your source for population, housing, economic and geographic data.

Basic Facts Popular tables and maps for the U.S., states, counties, cities, towns, and American Indian reservations

Tables

| Order | Year | Table | Block |
|---------------|------|-------|-------|
| 1 and 2 years | 1970 | 201A | |
| 1 and 2 years | 1970 | 201B | |
| 5 years | 1970 | 110A | |
| 5 years | 1970 | 110B | |

 Maps

Show me Economic Characteristics: Employment, Income, Poverty and more

for the United States

Data Sets All tables and maps for all geographies including the U.S., states, counties, cities, towns, American Indian reservations, metropolitan areas, zip codes, census tracts, blocks, and more

United States Census 2000

Age, Hispanic or Latino Origin, Household Relationship, Owners and Renters, Race, Sex, and more...

- [2000 Summary File 1](#) Complete geographic detail to the block level.
- [2000 Summary File 2](#) Subjects for up to 249 race or ethnic groups.
- [1990 Summary Tape File 1](#) Similar subjects from the 1990 Census.

Ancestry, Citizenship, Disability, Educational Attainment, Income, Industry, Language Spoken at Home, Marital Status, Migration, Occupation, Place of Birth, Place of Work, Poverty, Rent, School Enrollment, Tenure, Units in Structure, and more...

- [2000 Summary File 3](#) Social, economic, and housing data to the block group level.
- [1990 Summary Tape File 3](#) Similar subjects from the 1990 Census.

3. Decennial Census Data Sets Page

- The button for the selected data set will already be marked.
- Click on “Detailed Tables” at the right of the screen.

Figure 3 (next page):

Data Sets

[Load Query](#) | [Clear all selections](#)Decennial
CensusDecennial
Supplementary SurveysAmerican
Community SurveyEconomic Censuses
and SurveysPopulation
EstimatesSelect a data set below, or download data sets via [FTP](#) | [Future Releases](#)

- 2000**
- Census 2000 Summary File 3 (SF 3) - Sample Data**
Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population.


[Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2](#)
 - American Samoa Summary File**
This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - Guam Summary File**
This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - U.S. Virgin Islands Summary File**
This file presents information about housing units and people in the U.S. Virgin Islands. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - Census 2000 Summary File 2 (SF 2) 100-Percent Data**
Population and housing characteristics iterated for many detailed race and Hispanic or Latino categories, and American Indian and Alaska Native tribes.
 - Census 2000 Summary File 1 (SF 1) 100-Percent Data**
Summary File 1 presents counts and information [age, sex, race, Hispanic/Latino origin, household relationship, whether residence is owned or rented] collected from all people and housing units.
 - 108th Congressional District Summary File (Sample)**
Data from the Census 2000 Summary File 3 have been retabulated for the newly drawn 108th Congressional District boundaries.
 - 108th Congressional District Summary File (100-Percent)**
Data from the Census 2000 Summary File 1 have been retabulated for the newly drawn 108th Congressional District boundaries.
 - Census 2000 Redistricting Data (P.L. 94-171) Summary File**
The Redistricting Data (P.L. 94-171) Summary File contains summary statistics on counts of the total population, for the population 18 years and over, for 63 racial categories, and for Hispanic or Latino origin.
- 1990**
- 1990 Summary Tape File 1 (STF 1) - 100-Percent data**
Summary Tape File 1 (STF 1) contains 100% data on age, race, sex, marital status, Hispanic origin, household type and relationship, occupancy/vacancy status, tenure, units in structure, contract rent, meals included in rent, value, and number of rooms.
 - 1990 Summary Tape File 3 (STF 3) - Sample data**
Summary Tape File 3 (STF 3) contains sample data weighted to represent total population for 34 population items and 27 housing items and 100-percent counts and unweighted sample counts for total persons and total housing units.

Select from the following options:

[Detailed Tables](#)
[Quick Tables](#)
[Thematic Maps](#)
[Reference Maps](#)

[Enter a table number](#)
[List all tables](#)
[List all maps](#)

[About this data set](#)
[Technical Documentation \(PDF\)](#)

The letters PDF or symbol  indicate a document is in the Portable Document Format. You will need the [Adobe® Acrobat® Reader](#), which is available for **free** from the [Adobe website](#).

4. Screen for “Detailed Tables – Select Geography” (Figure 4)

- Select a geographic type (e.g. “State”).
- Select the geographic areas(s) (e.g., “Maryland”).
- Click “Add.”
- Click “Next.”

Figure 4:

The screenshot shows the 'Detailed Tables - Select Geography' interface. At the top, the U.S. Census Bureau logo and 'American FactFinder' are displayed. Navigation links include 'Main | Search | Feedback | FAQs | Glossary | Help' and 'Change Selections'. The current data set is '1990 Summary Tape File 3 (STF 3) - Sample data'. The interface includes a 'Choose a selection method' section with 'list', 'name search', and 'map' options. A 'Select a geographic type' dropdown is set to 'State'. A 'Select one or more geographic areas and click 'Add'' section features a list of states (Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland) with a 'Map It' button. Below this are 'Add' and 'Remove' buttons. A final list shows '==== State =====' and 'Maryland' with a 'Next' button.

5. Screen for “Detailed Tables – Select Tables” (Figure 5)
 - Scroll down list of tables and select Table “P077, Industry”.
 - Click “Add”
 - Click “Show Table”

Figure 5:

U.S. Census Bureau **American FactFinder**

[Main](#) | [Search](#) | [Feedback](#) | [FAQs](#) | [Glossary](#) | [Help](#)

Detailed Tables ▶ **Select Tables** [Change Selections](#) | [Current Selections](#)

Current Data Set: [1990 Summary Tape File 3 \(STF 3\) - Sample data](#)

● Search show all tables by subject by keyword

● Select one or more tables and click 'Add'

| |
|---|
| P072. Sex By Employment Status |
| P073. Presence And Age Of Children And Employment Status |
| P074. Presence And Age Of Children By Employment Status Of Parents |
| P075. Sex By Work Status In 1989 |
| P076. Sex By Work Status In 1989, Usual Hours Worked Per Week In 1989, And Weeks Worked In 1989 |
| P077. Industry |

Abbreviations:
 Black - Black or African American
 AIAN - American Indian and Alaska Native
 NHPI - Native Hawaiian and Other Pacific Islander

[What's this?](#)

Add ▼ **Remove** ▲

P077. Industry

Show Table ▶

6. Page showing the table selected (Figure 6)
 - In the upper right part of the screen (on the same line as “Detailed Tables”), put the cursor on “Print/Download” and click “Download.”

Figure 6:

The screenshot shows the American FactFinder interface. At the top, there is a navigation bar with links for Main, Search, Feedback, FAQs, Glossary, and Help. Below this, the 'Detailed Tables' section is active, with a sub-menu containing 'Change Selections', 'Print / Download', and 'Related Items'. The 'Print / Download' menu is open, showing 'Print' and 'Download' options. A 'Download' button is also visible on the page. The main content area displays the following information:

P077. INDUSTRY - Universe: Employed persons 16 years and over
 Data Set: [1990 Summary Tape File 3 \(STF 3\) - Sample data](#)

NOTE: For information on confidentiality, sampling error, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expstf390.htm>.

| | Maryland |
|--|-----------------|
| Agriculture, forestry, and fisheries (000-039) | 37642 |
| Mining (040-059) | 3535 |
| Construction (060-099) | 195504 |
| Manufacturing, nondurable goods (100-229) | 112176 |
| Manufacturing, durable goods (230-399) | 142768 |
| Transportation (400-439) | 106173 |
| Communications and other public utilities (440-499) | 68909 |
| Wholesale trade (500-579) | 94847 |
| Retail trade (580-699) | 372510 |
| Finance, insurance, and real estate (700-720) | 182484 |
| Business and repair services (721-760) | 136718 |
| Personal services (761-799) | 67995 |
| Entertainment and recreation services (800-811) | 29765 |
| Professional and related services (812-899): | |
| Health services (812-840) | 214313 |
| Educational services (842-860) | 197133 |
| Other professional and related services (841, 861-899) | 227593 |
| Public administration (900-939) | 291277 |

U.S. Bureau of the Census
 1990 Census of Population and Housing

7. Screen for “Detailed Tables – Download” (Figure 7)

Note: the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you are not using Internet Explorer, skip Figure 7 and see further instructions after Instruction 8 below.

- Click the button for “Comma delimited (.csv).” (It may already be filled.) Do **not** click the button called “Microsoft Excel (.xls),” even though that may seem logical.
- Click “OK.”

Figure 7:

Detailed Tables ▶ Download

• Select a download format [Explain my choices](#)

Presentation (include titles, headnotes, footnotes)

- Comma delimited (.csv)
- Comma delimited (.csv) (transpose rows and columns)
- Tab delimited (.lst)
- Tab delimited (.lst) (transpose rows and columns)
- Rich Text Format (.rtf)
- Rich Text Format (.rtf) (transpose rows and columns)

Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file

- Microsoft Excel (.xls)
- Comma delimited (.txt)

Include descriptive data element names

[Technical Documentation \(PDF\)](#)

8. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 8 below, but the column widths may appear squeezed.
- Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 8.
 - Now save the file. In the upper left toolbar, click “File,” and then “Save As.” **It is absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.**
 - a. **Designate a hard drive** (for example, “C” or “D”).
 - b. **Designate a directory or folder in which to save your file.**
 - c. **Change the file type to Excel.**
 - d. Your computer may have given the file a default name like “DownloadDT.” **Change the file name to one that you will recognize,** like “1990inddata-MD.”
 - e. Click “Save.”

Note: For Netscape and other browsers, the “Comma delimited” button may not give you the same results as Internet Explorer. Instead use the button for “Tab delimited,” save the file as described in instruction 8 above, and use a “Text Import Wizard” or similar tool provided in the browser to open the file in Excel.

Regardless of which browser you use, you want the final result to look like Figure 8.

Figure 8:

| P077. INDUSTRY - Universe: Employed persons 16 years and over | |
|---|----------|
| Data Set: 1990 Summary Tape File 3 (STF 3) - Sample data | |
| NOTE: For information on confidentiality, sampling error, nonsampling error, and definitions, see http://factfinder.census.gov/home/en/datanotes/expstf390.htm . | |
| | Maryland |
| Agriculture, forestry, and fisheries (000-039) | 37642 |
| Mining (040-059) | 3535 |
| Construction (060-099) | 195504 |
| Manufacturing, nondurable goods (100-229) | 112176 |
| Manufacturing, durable goods (230-399) | 142768 |
| Transportation (400-439) | 106173 |
| Communications and other public utilities (440-499) | 68909 |
| Wholesale trade (500-579) | 94847 |
| Retail trade (580-699) | 372510 |
| Finance, insurance, and real estate (700-720) | 182484 |
| Business and repair services (721-760) | 136718 |
| Personal services (761-799) | 67995 |
| Entertainment and recreation services (800-811) | 29765 |
| Professional and related services (812-899): | |
| Health services (812-840) | 214313 |
| Educational services (842-860) | 197133 |
| Other professional and related services (841, 861-899) | 227593 |
| Public administration (900-939) | 291277 |
| U.S. Bureau of the Census | |
| 1990 Census of Population and Housing | 2481342 |

Next get the Census 2000 data. Go BACK to the Census Data Sets page (Figure 9). Steps 9-16 below for the 2000 data are virtually identical to steps 3-8 above for the 1990 data.

You can also go back to the American FactFinder page (Figure 2) and click on “2000 Summary File 3” under “Data Sets,” and this also will take you to the Data Sets page.

9. Decennial Census Data Sets Page (Figure 9)

- Click on the button for “Census 2000 Summary File 3 (SF 3) – Sample Data.”
- Click on “Detailed Tables” at the right.

Figure 9:



U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Data Sets Load Query | Clear all selections

Decennial Census | Decennial Supplementary Surveys | American Community Survey | Economic Censuses and Surveys | Population Estimates

Select a data set below, or download data sets via [FTP](#) | [Future Releases](#)

| | |
|--|---|
| <p>2000 <input checked="" type="radio"/> Census 2000 Summary File 3 (SF 3) - Sample Data</p> <p>Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population.</p> <p>Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2</p> | <p>Select from the following options:</p> <p>Detailed Tables</p> <p>Geographic Comparison Tables</p> <p>Quick Tables</p> <p>Thematic Maps</p> <p>Reference Maps</p> <p>Custom Table</p> <p>Enter a table number</p> <p>List all tables</p> <p>List all maps</p> <p>About this data set</p> <p>Technical Documentation (PDF)</p> |
| <p><input type="radio"/> American Samoa Summary File</p> <p>This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.</p> | |
| <p><input type="radio"/> Guam Summary File</p> <p>This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.</p> | |

10. Screen for “Detailed Tables – Select Geography” (Figure 10)

- Select a geographic type (e.g. “State”).
- Select the geographic areas(s) (e.g., “Maryland”).
- Click “Add.”
- Click “Next.”

Figure 10:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables ▶ **Select Geography** Change Selections

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) Current Selections

• Choose a selection method list name search address search map geo within geo

• Select a geographic type [Explain Census Geography](#)

show all [geography types](#)

• Select one or more geographic areas and click 'Add'

11. Screen for “Detailed Tables – Select Tables” (Figure 11)

- Scroll down list of tables and select Table “P49, Sex by Industry for the Employed Civilian Population 16+ Years”.
- Click “Add.”
- Click “Show Table.”

Figure 11:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables ▸ **Select Tables** Change Selections

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) Current Selections

• Search show all tables by subject by keyword

• Select one or more tables and click 'Add'

| | |
|---|--|
| P44. Family Type by Employment Status P45. Presence of Own Children <18 Years by Age of Own Children by Employment Status for Females 16+ Years P46. Age of Own Children <18 Years in Families and Subfamilies by Living Arrangements by Employment Status of Parents P47. Sex by Work Status in 1999 by Usual Hours Worked per Week by Weeks Worked in 1999 for the Population 16+ Years P48. Family Type by Number of Workers in Family in 1999 P49. Sex by Industry for the Employed Civilian Population 16+ Years | Abbreviations: Black - Black or African American AIAN - American Indian and Alaska Native NHPI - Native Hawaiian and Other Pacific Islander |
|---|--|

[What's this?](#)

Add ▾ **Remove** ▲

P49. Sex by Industry for the Employed Civilian Population 16+ Years

Show Table ▶

12. Page showing the table selected (Figure 12)

- In the upper right part of the screen (on the same line as “Detailed Tables”), put the cursor on “Print/Download” and click “Download.”

Figure 12 (this is only part of a much larger table):

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables | Options | Change Selections | **Print / Download** | Related Items

Print | ad Query | Save Query
Download

P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16 YEARS AND OVER [55] -
 Universe: [Employed civilian population 16 years and over](#) Download
 Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#)

NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidentiality protection, sampling error, nonsampling error, and definitions see <http://factfinder.census.gov/home/en/datanotes/expsf3.htm>.

| | Maryland |
|--|-----------------|
| Total: | 2,608,457 |
| Male: | 1,328,420 |
| Agriculture, forestry, fishing and hunting, and mining: | 12,141 |
| Agriculture, forestry, fishing and hunting | 10,603 |
| Mining | 1,538 |
| Construction | 159,685 |
| Manufacturing | 130,362 |
| Wholesale trade | 51,270 |
| Retail trade | 139,656 |
| Transportation and warehousing, and utilities: | 92,762 |
| Transportation and warehousing | 76,291 |
| Utilities | 16,471 |
| Information | 55,824 |
| Finance, insurance, real estate and rental and leasing: | 77,609 |
| Finance and insurance | 49,920 |
| Real estate and rental and leasing | 27,689 |
| Professional, scientific, management, administrative, and waste management services: | 176,094 |
| Professional, scientific, and technical services | 125,906 |
| Management of companies and enterprises | 429 |
| Administrative and support and waste management services | 49,759 |
| Educational, health and social services: | 139,525 |
| Educational services | 72,608 |
| Health care and social assistance | 66,917 |
| Arts, entertainment, recreation, accommodation and food services: | 88,683 |
| Arts, entertainment, and recreation | 22,532 |

13. Screen for “Detailed Tables – Download” (Figure 13)

Note: as with Step 7 above, the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you had to use the alternate instructions provided after Instruction 8 above to download the 1990 data, then use the same instructions here instead of 13 and 14 to download the 2000 data. The final result should look like Figure 14 below.

- Click the button for “Comma delimited (.csv).” (It may already be filled.) Do not click the button called “Microsoft Excel (.xls),” even though that may seem logical.
- Click “OK.”

Figure 13:

Detailed Tables ▶ Download

● Select a download format [Explain my choices](#)

Presentation (include titles, headnotes, footnotes)

- Comma delimited (.csv)
- Comma delimited (.csv) (transpose rows and columns)
- Tab delimited (.lst)
- Tab delimited (.lst) (transpose rows and columns)
- Rich Text Format (.rtf)
- Rich Text Format (.rtf) (transpose rows and columns)

Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file

- Microsoft Excel (.xls)
- Comma delimited (.txt)

Include descriptive data element names

OK **Cancel**

[Technical Documentation \(PDF\)](#)

14. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 14 below, but the column widths may appear squeezed.
- Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 14.
 - Now save the file. In the upper left toolbar, click “File,” and then “Save As.” **It is absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.**
 - a. **Designate a hard drive** (for example, “C” or “D”).
 - b. **Designate a directory or folder in which to save your file.**
 - c. **Change the file type to Excel.**
 - d. Your computer may have given the file a default name like “DownloadDT.” **Change the file name to one that you will recognize,** like “2000inddata-MD.”
 - e. Click “Save.”

Figure 14: (on next page)

| | |
|--|-----------|
| P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16 YEARS AND OVER [55] - Universe: Employed civilian population 16 years and over | |
| Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data | |
| NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidentiality protection, sampling error, nonsampling error, and definitions see http://factfinder.census.gov/home/en/datanotes/expsf3.htm . | |
| □ | |
| | Maryland |
| Total: | 2,608,457 |
| Male: | 1,328,420 |
| Agriculture, forestry, fishing and hunting, and mining: | 12,141 |
| Agriculture, forestry, fishing and hunting | 10,603 |
| Mining | 1,538 |
| Construction | 159,685 |
| Manufacturing | 130,362 |
| Wholesale trade | 51,270 |
| Retail trade | 139,656 |
| Transportation and warehousing, and utilities: | 92,762 |
| Transportation and warehousing | 76,291 |
| Utilities | 16,471 |
| Information | 55,824 |
| Finance, insurance, real estate and rental and leasing: | 77,609 |
| Finance and insurance | 49,920 |
| Real estate and rental and leasing | 27,689 |
| Professional, scientific, management, administrative, and waste management | 176,094 |
| Professional, scientific, and technical services | 125,906 |
| Management of companies and enterprises | 429 |
| Administrative and support and waste management services | 49,759 |
| Educational, health and social services: | 139,525 |
| Educational services | 72,608 |
| Health care and social assistance | 66,917 |

Part 2: Copying the 1990 and 2000 Data into the Template and Creating the Crosswalks

1. If you have not already copied or downloaded the Template, go back to the Industry Table Crosswalk Menu page from which you downloaded these instructions. Open the Template from this website (the third item on the Menu page). Most of the cells are blank, but some contain zeros. The template will automatically compute data for the zero cells once you start copying data to the blank cells. Copy data from other files only into the blank cells, as described in the next steps.
2. Go to the file you created containing the 1990 data (e.g. "1990inddata-MD"). Use the "Window" feature in your top toolbar to toggle between files. Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Agriculture, forestry, and fisheries."
 - Copy the cells in column B of this table for "Agriculture, forestry, and fisheries" through "Public administration" (18 cells total) into Template Section 1, column D, rows 12-29. (Note: one cell is blank.)
 - The Template Section 1 should look like Figure 15. At this point the Template will automatically provide a Total in cell D11, transfer figures to Section 3, convert the data to the 2000 categories in Sections 4 and 5, and copy the results to Section 6.

Figure 15:

| 1990-2000 Census Tabulation Crosswalk Template: Industry | | |
|---|--|-----------|
| Area: Maryland | | |
| Level 1: Most Basic, Broadest Categories | | |
| Direction: Changes from 1990 Categories to 2000 Categories (1990-2000) | | |
| Section 1: Copy the Following Data From the 1990 Census STF-3 Detailed Tables: | | |
| P077. INDUSTRY - Universe: Employed persons 16 years and over | | |
| Note: 1990 STF-3 provides data for Total Employed only. | | |
| | | Total |
| Employed persons 16 years and over | | 2,481,342 |
| Agriculture, forestry, and fisheries (000-039) | | 37,642 |
| Mining (040-059) | | 3,535 |
| Construction (060-099) | | 195,504 |
| Manufacturing, nondurable goods (100-229) | | 112,176 |
| Manufacturing, durable goods (230-399) | | 142,768 |
| Transportation (400-439) | | 106,173 |
| Communications and other public utilities (440-499) | | 68,909 |
| Wholesale trade (500-579) | | 94,847 |
| Retail trade (580-699) | | 372,510 |
| Finance, insurance, and real estate (700-720) | | 182,484 |
| Business and repair services (721-760) | | 136,718 |
| Personal services (761-799) | | 67,995 |
| Entertainment and recreation services (800-811) | | 29,765 |
| Professional and related services (812-899): | | |
| Health services (812-840) | | 214,313 |
| Educational services (842-860) | | 197,133 |
| Other professional and related services (841, 861-899) | | 227,593 |
| Public administration (900-939) | | 291,277 |

Go to the file you created containing the 2000 data (e.g. "2000inddata-MD"). Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Total:."

- Copy the 27 cells in column B for "Male:" through "Public administration" (omit "Total" and stop just before "Female") to Template Section 2, column **I**, rows **11-37**.
- Copy the next 27 cells in column B for "Female:" through "Public administration" to Template Section 2, column **J**, rows **11-37**.
- The Template will automatically compute totals in section 2, column K, and transfer figures to Section 6. Template Sections 1 and 2 should look like Figure 16.

Figure 16 (on next page):

At this point the converted 1990 data will appear next to the 2000 data in Template Section 6. Section 6 also computes the 1990-2000 changes in terms of the 2000 Census categories. Insert the geographic area name in row 2, and save the file with a new name. Sections 5 and 6 of the final product should look like Figure 17.

Figure 17 (on next page):

| 1990-2000 Census Tabulation Crosswalk Template: Industry | | | | | Section 6: Comparison of 1990 to 2000, Using Census 2000 Industrial Category Definitions | | | | |
|--|-------|-----------------|------------------|--|---|------------------------------|------------------------------|---------------------------|--|
| Area: Maryland | | | | | | | | | |
| Level 1: Most Basic, Broadest Categories | | | | | | | | | |
| Direction: Changes from 1990 Categories to 2000 Categories (1990-2000) | | | | | | | | | |
| Section 5: Conversion to 2000 "Quick" Table & Profile Categories (13) | | | | | Section 6: Comparison of 1990 to 2000, Using Census 2000 Industrial Category Definitions | | | | |
| Note: all data in this table add up to the 1990 totals | | | | | | | | | |
| Category | Label | 2000 Codes | Number Employed | | SF-3 / Demographic Profile Category (Profile categories in bold) | Number Employed, 1990 Census | Number Employed, Census 2000 | Percent Change, 1990-2000 | |
| Agriculture, forestry, fishing and hunting, and mining: | 2KAGM | 017-049 | 33,257 | | Agriculture, forestry, fishing and hunting, and mining: | 33,257 | 16,178 | -51.4% | |
| | | | | | Agriculture, forestry, fishing and hunting | 29,642 | 14,413 | -51.4% | |
| | | | | | Mining | 3,615 | 1,765 | -51.2% | |
| Construction | 2KCON | 077 | 192,060 | | Construction | 192,060 | 181,280 | -5.6% | |
| Manufacturing | 2KMFG | 107-399 | 249,426 | | Manufacturing | 249,426 | 189,327 | -24.1% | |
| Wholesale trade | 2KWHL | 407-459 | 93,723 | | Wholesale trade | 93,723 | 72,621 | -22.5% | |
| Retail trade | 2KRET | 467-579 | 258,510 | | Retail trade | 258,510 | 273,339 | 5.7% | |
| Transportation and warehousing, and utilities: | 2KTWU | 057-069,607-639 | 130,020 | | Transportation and warehousing, and utilities: | 130,020 | 127,294 | -2.1% | |
| | | | | | Transportation and warehousing | 101,576 | 106,096 | 4.5% | |
| | | | | | Utilities | 28,444 | 21,198 | -25.5% | |
| Information | 2KINF | 647-679 | 65,412 | | Information | 65,412 | 103,351 | 58.0% | |
| Finance, insurance, real estate and rental and leasing: | 2KFIL | 687-719 | 184,981 | | Finance, insurance, real estate and rental and leasing: | 184,981 | 186,159 | 0.6% | |
| | | | | | Finance and insurance | 135,181 | 132,446 | -2.0% | |
| | | | | | Real estate and rental and leasing | 49,800 | 53,713 | 7.9% | |
| Professional, scientific, management, administrative, and waste management services: | 2KPSM | 727-779 | 228,114 | | Professional, scientific, management, administrative, and waste management services: | 228,114 | 323,834 | 42.0% | |
| | | | | | Professional, scientific, and technical services | 150,344 | 233,666 | 55.4% | |
| | | | | | Management of companies and enterprises | 225 | 922 | 310.7% | |
| | | | | | Administrative & support & waste management servs. | 77,545 | 89,246 | 15.1% | |
| Educational, health and social services: | 2KEHS | 786-847 | 469,078 | | Educational, health and social services: | 469,078 | 538,350 | 14.8% | |
| | | | | | Educational services | 192,201 | 236,211 | 22.9% | |
| | | | | | Health care and social assistance | 276,878 | 302,139 | 9.1% | |
| Arts, entertainment, recreation, accommodation and food services: | 2KAEF | 856-869 | 166,024 | | Arts, entertainment, recreation, accommodation and food services: | 166,024 | 177,341 | 6.8% | |
| | | | | | Arts, entertainment, and recreation | 32,382 | 41,132 | 27.0% | |
| | | | | | Accommodation and food services | 133,641 | 136,209 | 1.9% | |
| Other services (except public administration) | 2KOTS | 877-929 | 118,562 | | Other services (except public administration) | 118,562 | 145,424 | 22.7% | |
| Public administration | 2KPUB | 937-959 | 292,177 | | Public administration | 292,177 | 273,959 | -6.2% | |
| TOTAL | | | 2,481,342 | | TOTAL | 2,481,342 | 2,608,457 | 5.1% | |