



NATIONAL CROSSWALK SERVICE CENTER

ACTIVITY REPORT

JULY 1, 2015 – JUNE 30, 2016

*The National Crosswalk Service Center's mission is to maximize the effective and efficient use of occupational information by providing specialized tools (including files, reports, software, templates, and more) and technical assistance to users and producers of occupational information.*

The National Crosswalk Service Center is operated by the Iowa Department of Education through a contract with the Analysis Resource Center. The Minnesota Department of Employment and Economic Development is the lead agency. Funding is provided by the Employment and Training Administration, U.S. Department of Labor.

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| National Crosswalk Service Center |

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# Introduction

The State of Iowa has operated a federally-funded service center for occupational and educational classifications, along with related data since April 1, 1983. A primary focus of this, the National Crosswalk Service Center's (NCSC), has been the provision of information relating to occupations, education and training programs, their relationships to each other, and related data to professionals providing services to those participating in the labor market. Between 1983 and 1997, the center was funded by the National Occupational Information Coordinating Committee (NOICC), a federal interagency group that included the Departments of Labor and Education among others. NOICC ceased operations in 2000. Beginning in 1997, the Department of Labor's Employment and Training Administration assumed funding for the NCSC with a focus on America's Labor Market Information System which included a collection of data partially based on databases developed by NOICC. The ALMIS Database Maintenance Consortium was charged with managing the structure, content and use of this database beginning in 1997, and the NCSC was funded to support this work.

As the database and federal programs evolved over time, the ALMIS Database Maintenance Consortium also changed, becoming the ALMIS Resource Center and then the Analyst Resource Center (ARC). The ALMIS Database also changed and became the Workforce Information Database. Funding for the ARC flowed through the State of North Carolina until 2012 when the State of Minnesota assumed responsibility for the effort.

The Analyst Resource Center, Employment and Training Administration and the NCSC have established four objectives for operation of the center:

- 1) Work with ARC members to establish a single point of technical support to assist states in their development of the Workforce Information Database.
- 2) Provide a conduit for information and data into and out of the Workforce Information System.
- 3) Provide a one-stop resource for classification and crosswalk resources.
- 4) More fully exploit Internet communication to share files, ideas, feedback, etc. among producers and users of occupational, training and economic information.

This report examines the operation of the NCSC for the period ending June 30, 2016. It documents activities specifically related to support of the ARC and state WID database administrators, as well as overall utilization of the center's resources, including customers outside the workforce information community. It is the latest of a series of reports dating back to 1988, available from the [NCSC's web site](#).

## NCSC Utilization

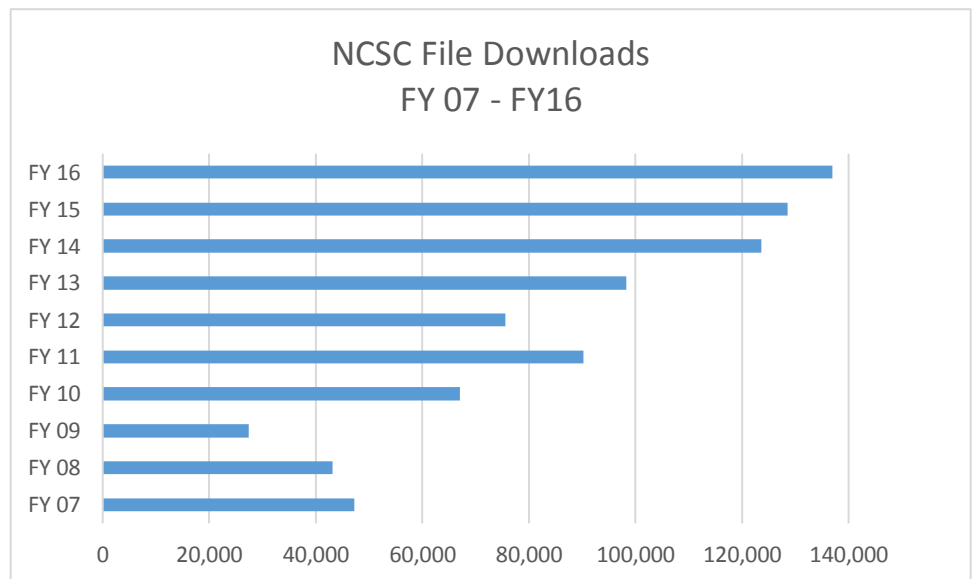
As technology has changed over the decades of NCSC operation, the center has also changed, both in what is delivered to customers and how that content has been delivered.

Years	File Development and Distribution
1983 – 1987	Mainframe processing, nine-track tape and printed report distribution through mail
1985 – 1999	Decreasing mainframe use. Rising use of PC for processing. Diskette distribution through mail. Use of dial-up bulletin board service 1989 – 1999.
1998 – present	File development exclusively on PCs. Distribution exclusively through internet.

Delivery of products

and services for the first 15 or so years of center operations was quite limited by the technology in use. Creation of products, whether on nine-track tape or printed reports, was limited by the time lags inherent in debugging programs on a mainframe computer and movement of finished products between buildings in the state capitol complex. Increasing use of microcomputers both by the NCSC and its customers increased the demand and the center's ability to produce products more quickly. Product delivery was further advanced through the use of a dial-up bulletin board system between 1990 and 1999.

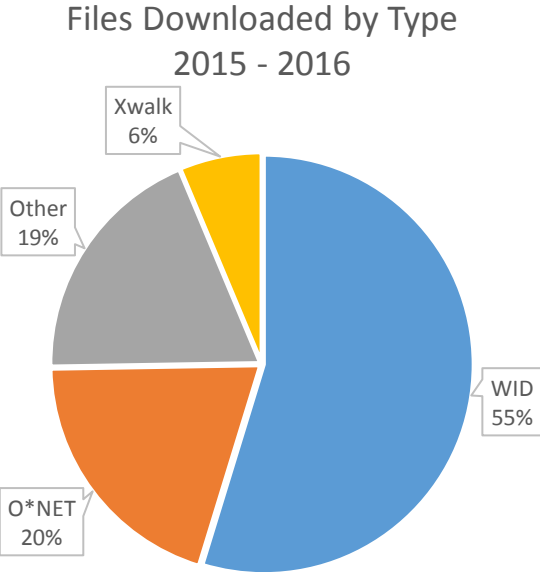
Existing files could be shared with customers without any involvement by NCSC staff. This increased file delivery by a factor of five, but file distribution began rapid growth only after the establishment of a server providing file downloads over the Internet. Increases in the number of federally-produced resources and the increasing use of microcomputers by the



center's customers also help fuel growth. Just in the last 10 years, the number of files distributed has grown by 190% as shown in the graph above.

The primary focus of the NCSC's work is the support of state database administrators charged with the maintenance and use of their versions of the Workforce Information

Database (WID). Therefore, it should come as no surprise that the majority of files downloaded from the center's server relate to that database. The portion of total downloads accounted for by WID-related files has ranged between 50 and 80 percent over the last decade. A variety of factors can influence this: release of a new database version by the ARC, introduction of new non-standard or other tables that may be popular with NCSC customers, development of new applications that utilize the WID structure and content by customers outside the Workforce Information System, or the magnitude of releases of data by source agencies such as the Bureau of Labor Statistics and the Census Bureau. The magnitude of these files downloaded and e-mail received from those outside the WID target developers indicate significant use of WID files, structure and content outside state workforce agencies.



Distribution of Occupational Information Network (O\*NET) files has been a significant NCSC activity since the first O\*NET database release in 1998. Databases that contain all of the classification's versions are available from the NCSC download server, with guidance provided through the center's web site. In addition, the center formats O\*NET content for use with the WID. Since O\*NET content can change several times each year, the O\*NET database is maintained separately, using the WID ONETCODE lookup table to allow for links between the two. The current O\*NET database is always available for downloading from the NCSC's non-standard WID tables page.

Interest in information relating to military occupations has also grown, with the number of military-related files downloaded more than doubling during the latest three years. The federal and state governments both have shown interest in helping veterans make successful transitions out of the military into civilian life. The DMDC (formerly known as the Defense

Manpower Data Center) maintains information about military occupations including crosswalks that link them to the SOC and O\*NET classifications. The DMDC crosswalk serves as the basis for a variety of tools used in helping veterans explore employment opportunities after separation from the military. During recent years, the crosswalk has been enhanced through the addition of military-civilian occupation links developed by the military services and legislation requiring a more detailed study of military training and how that may relate to the civilian labor market. These enhancements focused on both the most common military occupations and those that generally don't relate readily to civilian occupations. For more information, visit the NCSC [Military Resources](#) page.

An examination of WID files downloaded further points to use of these resources by a wide variety of customers. Resources designed largely for those building a version of the WID saw slightly less than ten percent of all downloads, and other WID-specific resources (licensing, structure, etc.) saw only six percent.

Downloads of data files accounted for nearly 85 percent of the total.

The 50,000+ state-specific data files downloaded far exceed what one would expect to see as downloads by state WID database administrators, especially since nearly all of the state files are revised annually. This would seem to point to the use of WID files in a variety of research or applications developed by vendors outside the workforce information community. Data files found in a typical state's directory on the NCSC server include:

1. BEA personal income and per capita personal income
2. Population estimates for states, counties, and in some cases, cities or places
3. Census median family income and poverty estimates
4. County-to-county commuting patterns
5. Counts of persons leaving the military by civilian occupation equivalent, state and county
6. Directories of state postsecondary education institutions, the programs they offer and counts of graduates of each program.

	Downloads	Percent
<b>Total</b>	<b>71,717</b>	<b>100.0</b>
<b>Data Files</b>	<b>60,356</b>	<b>84.2</b>
National	6,530	9.1
State	50,874	70.9
Non-standard	2,952	4.1
<b>Lookup, etc. by Version</b>	<b>7,034</b>	<b>9.8</b>
1.0	205	0.3
1.1	522	0.7
2.0	555	0.8
2.1	777	1.1
2.2	963	1.3
2.3	1,197	1.7
2.4	749	1.0
2.5	473	0.8
2.6	1,593	2.6
<b>Documents &amp; Other</b>	<b>4,327</b>	<b>6.0</b>
Licensing	834	1.2
Structure	769	1.1
Misc.	1,214	1.7
Other	1,510	2.1

## Customer Identification

The anonymous nature of downloads from the NCSC's server makes identification or classification of the center's customers next to impossible. The information contained in the server's logs contains nothing that would aid in that process. However, the center has significant e-mail contact with customers with questions about the files available for downloading or in search of specific resources. These contacts provide a glimpse of the types of organizations and individuals with interest in the center's products. During the period covered by this report, the center was contacted by these organizations:

Organisation for Economic Co-operation and Development	Monster.com
CBI Employment / Williston Park, NY	Senior Consultant / Global Predictive Analytics
Research Manager / Burning Glass Technologies	The Boston Consulting Group / Seattle, WA
PhD Student, Economics / Cornell University	Professor of Economics and International Business / McDonough School of Business / Georgetown University
Student Services Virginia Community College System	Research Director / Career Vision / A Division of The Ball Foundation
Oxford Economics / Broadwall House / London	Assistant Professor / School of International Service / American University
PhD student / Frisch Center / University of Oslo / Norway	Department of Sociology / Florida State University
Director of Veteran Enrollment Practice / SYRACUSE UNIVERSITY	Routhier Executive in Residence URI /Co-lead RIAC
Ph.D. candidate, Finance / J. Mack Robinson College of Business / Georgia State University	Research Officer - Employment and Change (EMPC) / European Foundation for the Improvement of Living and Working Conditions / Dublin, Ireland.
PhD student / University of Illinois	Associate Director / Center for Human Resource Research / The Ohio State University
IPEA – Brazilian Institute of Applied / Economic Research / Brasília, DF, Brazil	Centris Group / Rockville Centre, NY
Assistant Attending Physician / Health Outcomes Research Group / Center for Health Policy and Outcomes / Department of Epidemiology and Biostatistics / Memorial Sloan Kettering Cancer Center / New York, NY	Chmura Economics & Analytics / Richmond, VA

Work and Employment Relations Division /  
Leeds University Business School / Maurice  
Keyworth Building / University of Leeds,  
Leeds, LS2 9JT

Director of Workforce Analytics /  
Opportunity Inc. of Hampton Roads /  
Norfolk, VA

A number of interactions between the NCSC and its customers may occur because of this initial e-mail contact, including:

- The customer may be referred to existing information on the NCSC web site or Internet file server.
- The customer may be directed to federal or state sources of the information.
- NCSC staff may work with the customer to define their needs so that they can be met with information that already exists among NCSC or other sources.

## Activities Related to NCSC Work Statements

The ultimate measure of the successful operation of the NCSC should be the body of products and services provided to its customers, along with support for other projects that utilize the information the center provides. While the statement of work for the NCSC contract focuses on the Analyst Resource Center and the Workforce Information Database, it also allows for continuation of services to those outside the workforce system, many of whom have used NCSC products and services for years or decades. The center functions as a conduit for information and data both into and out of the workforce system, making labor market and related information available to those outside the workforce system and making data from diverse sources such as the Census Bureau and Department of Defense available for use within workforce applications. This section documents specific activities of the NCSC in meeting the requirements of the six major task areas included in its contract with the ARC.

### Support the Analyst Resource Center

- Attended ARC meetings in San Antonio (September-October) and Seattle (April). At each meeting:
  - Provided updates on NCSC Activities
  - Worked with the Structure and Education & Training Committees on current issues
- Added content to the Recent Postings, Headlines and Latest News sections on the ARC web site's home page ([www.workforceinfodb.org](http://www.workforceinfodb.org)) in cooperation with the Education and Training Committee (ongoing)



- Maintained ARC Database Administrator e-mail distribution list and Internet directory (ongoing)
- Wrote three articles for and published ARC newsletter (July); four articles and published ARC newsletter (April)
- Provided monthly activity updates to ETA and ARC leadership (July-June)
- Produced an annual activity report for the period July 1, 2014 through June 30, 2015. Electronic copies were furnished to ARC leadership and ETA. The report was published on the NCSC website and state database administrators and other customers were advised of its availability. (June)

## Support state database administrators in their efforts to populate and manage their versions of the Workforce Information Database

Downloaded, formatted and made the following WID updates available to the states:

- National content for LABFORCE, CES, CPI, CPIPLUS tables (July-June); QCEW (October); Occupational Employment Statistics estimates (May), Employment Projections (December)
- Nonstandard state Personal Consumption Expenditures (December)
- 2015 Integrated Postsecondary Education Data System (IPEDS) institutional and program completer data for SCHOOLS, PROGRAMS, PROGCOMP and SUPPLY tables (October)
- Personal Income estimates: State (July, October, March), County, metro, micro, etc. (November), Real personal income (state, metro, July)
- One- and five-year American Community Survey estimates formatted for the WID DEMOGRAPHICS table (September, December)
- Counts of military service separations by civilian occupation for the U.S., states and counties (December)
- Poverty rates and enhanced state tax receipts (December)
- National, state and county median household income estimates from the Census Bureau (December)
- National and state population estimates, 2011-2015 (December)
- Minor Civil Division commuting patterns (December)
- Local area (county) population estimates (March)
- Subcounty (city/place) population estimates (May)
- Revised industry/occupation matrices from OES and projections (March)
- Updated New England City and Town Area (NECTA) geographic delineations for GEOG and SUBGEOG tables (August)
- State Gross Domestic Product Estimates (nonstandard/prototype – June)

- ZIP Code Business Profiles ([nonstandard/prototype](#) – May)
- Developed resources for state database administrators in support of the releases of versions 2.6 and 2.6.1 of the Workforce Information Database: Addenda and Errata (December)

## Provide Support to CareerOneStop and other ETA Electronic tools and initiatives

- Provided three updated licensed occupation databases to CareerOneStop for their use in their online application (October, February, June)
- Provided assistance to 25 states in formatting their licensing tables for use in the CareerOneStop licensing application
- Monthly listing of counts of O\*NET file downloads to the National O\*NET Center (July-June)
- Provided updated military-civilian crosswalk and related service-specific files to CareerOneStop and updated crosswalk files to the National O\*NET Center. Various versions of the military crosswalk were made available, both for general consumption and use with the WID. (July, October, January, April)
- Formatted and distributed O\*NET files for use with the WID and other applications:
  - Lay Titles, Tools and Technology (July)
  - O\*NET 20.0 Database (August)
  - O\*NET 20.1 Database (October)
  - O\*NET 20.2 Database (Alternate titles and Tools and Technology only - February)
  - O\*NET 20.3 Database (Alternate titles and Tools and Technology only - April)

## Develop and maintain the Internet resources necessary to carry out the other tasks

- Completed migration of NCSC server to meet Iowa's Office of the Chief Information Officer standards (June-August):
  - Migration from Server 2003 to Server 2012 R2
  - Creation of web and database servers in production and test environments
- Began work on the next generation of NCSC and ARC web technology
  - Established several instances using Minnesota's Amazon Web Services (AWS) account for exploring available services and testing scenarios for file transfers and web site maintenance

## Maintain and Expand the Center's collection of classification resources

- Expanded the center's collection of classification resources as new O\*NET and military files became available
- Provided the National O\*NET Center and CareerOneStop with files or links to files that contain descriptive, supplemental information about military occupations for their use in developing new or enhancing existing applications.
- Continued support for enhancements of edeps.org, a web site originally developed with ETA funding to showcase labor market, education, economic, demographic and other information of interest for those working with a variety of programs.

## Continue the center's outreach by attending conferences and, where appropriate, presenting information about NCSC or ARC products and services

- Attended the annual Labor Market Information Forum in Minneapolis in June. In two breakout sessions answered questions about the counts of military separations by state, county and civilian occupation. Subsequently worked with two groups to include enhancements that would make the files more useful for them.

## Appendix A

### Analysis of NCSC Internet Server Log Files

The quantification of the delivery of products and services by the National Crosswalk Service Center in this report relies heavily on the analysis of log files from the center's Internet server. That server's main function is the distribution of files through the Internet File Transfer Protocol (FTP) and the World Wide Web Protocol, HTTP. The NCSC's home page is located on a separate server, operated by the State of Iowa, and use of that web site is not included in the analysis.

The report includes analysis of the characteristics and number of files downloaded. During this analysis, log files are imported into a database, files read by Internet search engines are excluded, activity by NCSC staff is excluded, and counts of individual files viewed/downloaded are generated.

In order to provide more consistent and accurate counts of file downloading activity, this process was modified to eliminate more search engine activity, incomplete file downloads and other extraneous information. Greater reliance was placed on the codes returned by the server at the completion of a file transfer to identify incomplete transfers and other information not related to file transfers. This resulted in file download counts that were, in some instances, significantly less than had been published previously.

# Appendix B

## Files with Significant Downloads (2015-2016)

Rank	File Name	Views	Description
1	CAREERPATHWAYSTOOLKIT2011.PDF	3,508	Caereer Pathways Document
2	WORKFORCE_INFORMATION_DATABASE_ADMINISTRATORS.PDF	1,086	State Database Administrator Contact list
3	WFINFODB/NATIONAL/README.TXT	1,011	Information about national WID files
4	XWALKS/CENSXSOC.DOC	672	Description of 2000 Census to 2000 SOC crosswalk
5	XWALKS/OCCINDO.PDF	657	Description of occupation-industry links from 2015 OES estimates
6	XWALKS/SOCDOT.DOC	603	Listing of DOT occupations by SOC
7	WFINFODB/WHATSNEW.TXT	583	Information about new WID files
8	ONET12/ONET12USERGUIDE.PDF	581	O*NET 12.0 User Guide
9	ONET.SUP/XW10ACCESS.ZIP	529	O*NET-SOC 2010 taxonomy crosswalk files (MS Access)
10	XWALKS/OCCINDP.PDF	523	Description of occupation-industry links from employment projections
11	WID261_DATADITIONARY.PDF	520	WID 2.6.1 Data Dictionary
12	SOCCIP2010/CIPSOCUSERSGUIDEMARCH152011.DOC	499	BLS-NCES SOC-CIP Crosswalk Information
13	ONET.SUP/XW10ACCESS.PDF	496	O*NET-SOC 2010 taxonomy crosswalk files description
14	XWALKS/OCCINDO.ZIP	456	Occupation-industry links from 2015 OES estimates
15	XWALKS/CEN02SOC.DOC	449	Description of 2002 Census to 2000 SOC crosswalk
16	XWALKS/CIP90X00.DOC	437	Description of 1990 to 2000 CIP crosswalk
17	ONET31/DATA_DOC.PDF	436	O*NET 3.1 database description
18	CURRENT_NEWSLETTER.PDF	413	Current ARC Newsletter
19	XWALKS/DOTCEN00.XLS	401	DOT to 2000 Census crosswalk
20	WID_V261_ADDENDA_ERRATA.PDF	399	WID 2.6.1 addenda/errata document
21	XWALKS/README.TXT	384	Description of contents of the XWALKS folder
22	MILITARY/VOW+222+QC+FROM+ONET+4-17-14.XLS	367	Research relating to common military occupations
23	WID-26.PDF	333	WID 2.6 Data Dictionary
24	ONET51/DATA_VFP.PDF	326	Description of WID-friendly O*NET 5.1 database
25	MILITARY/MOTD2002.PDF	321	Description of 2002 Military Occupational and Training Data
26	ONET40/DATA_VFP.PDF	320	Description of WID-friendly O*NET 4.0 database
27	ONET30/DATA_DOC.PDF	313	Description of O*NET 3.0 database source files
28	ONET51/DATADITIONARY5_1.PDF	313	Description of O*NET 5.1 source files
29	WFINFODB/VER261/README.PDF	311	Description of contents of the WID 2.6.1 folders
30	WFINFODB/NATIONAL/CPI2326.TXT	309	WID Consumer Price Index national data file
31	ONET30/DATA_VFP.PDF	304	Description of WID-friendly O*NET 3.0 database
32	ONET50/ONET50FP.PDF	304	Description of WID-friendly O*NET 5.0 FoxPro database
33	WFINFODB/NONSTD/STATEGDP.PDF	289	Description of non-standard state GDP table
34	WFINFODB/NONSTD/MILITARY+CROSSWALK+AND+RELATED+FILES.PDF	288	Description of WID-friendly military crosswalk tables
35	WFINFODB/VER261/WID261_DATADITIONARY.PDF	286	Description of WID-friendly O*NET 2.6.1 database
36	OOH0809/0809OOHONET.XLS	281	OOH to O*NET occupation crosswalk
37	OCCNAMES/DOTVARS.XLS	280	Description of DOT variables and variable values
38	XWALKS/CEN90X00.PDF	272	Description of crosswalk linking 1990 and 2000 census occupations
39	WFINFODB/VER21/ALMISDB+VERISON+2.1+8-17-2000.DOC	269	WID 2.1 Data Dictionary
40	WID_2_4_STD.PDF	262	WID 2.4 Data Dictionary
41	ONET.SUP/LT06README.PDF	260	Description of O*NET Lay Titles (2006 taxonomy)
42	MISC/HUD+GEOG.PDF	259	Description of HUD ZIP Code crosswalk tables
43	WFINFODB/EDUCATION/SCHOOLS14.PDF	254	Description of nationl 2014 IPEDS-based school files
44	ONET98/DATADICT.PDF	253	O*NET 98 Data Dictionary
45	XWALKS/MOCONET.DOC	251	Description of military occupation to O*NET 3.1 crosswalk
46	MATRIX14/OPTD2014.PDF	248	Description of 2014 projections occupational characteristics
47	ONET.SUP/XW10SAS.PDF	248	Description of O*NET crosswalks, SAS/PC, 2010 taxonomy
48	MILITARY/MILX0114.PDF	247	Description of January 2014 military crosswalk source file
49	ONET.SUP/LT10README.PDF	247	Descriptoin of Lay Titles Files (2010 taxonomy)
50	WID_2_4_ANNOTATED.PDF	247	WID 2.4 Annotated Data Dictionary
51	XWALKS/CEN02SOC.XLS	242	2002 Census to 2000 SOC crosswalk
52	MILITARY/MILX0414.PDF	239	Description of January 2014 military crosswalk source file
53	ONET.SUP/TT06README.PDF	238	Description of Tools & Technology files (2006 taxonomy)
54	MILITARY/MILX0115.PDF	237	Description of January 2014 military crosswalk source file
55	MILITARY/MILX0710.PDF	236	Description of January 2014 military crosswalk source file
56	MILITARY/MILX0714.PDF	236	Description of January 2014 military crosswalk source file
57	WFINFODB/NATIONAL/LAB2126.TXT	236	National LABFORCE table, text format
58	MATRIX02/MATRIX02.DOC	234	Description of 2002-2012 employment projections
59	MILITARY/MILX0410.PDF	232	Description of January 2014 military crosswalk source file
60	MILITARY/MILX1010.PDF	232	Description of January 2014 military crosswalk source file
61	ONET.SUP/ET06README.PDF	230	Description of Emerging Tasks files (2006 taxonomy)
62	ONET.SUP/ET09README.PDF	230	Description of Emerging Tasks files (2009 taxonomy)
63	MISC/GNIS0306.PDF	229	Description of Geographic Names Information System File
64	ONET.SUP/LT09README.PDF	229	Description of Lay Titles table (2006 taxonomy)
65	ONET.SUP/WORKNEEDS06README.PDF	228	Description of Work Needs files (2006 taxonomy)
66	ONET201/ONET201WID.PDF	228	Description of O*NET WID-friendly database
67	XWALKS/SOXCIP.DOC	228	Description of 2000 SOC to 2000 CIP crosswalk
68	ONET40/DATADITIONARY4_0.PDF	227	O*NET 4.0 Data Dictionary
69	ONET.SUP/XW10SAS.ZIP	225	O*NET crosswalks, 2010 taxonomy, SAS/PC format
70	WFINFODB/NATIONAL/CES2526.ZIP	224	National content for WID CES table for versions 2.5-2,6,1
71	MILITARY/MILX1015.PDF	223	Description of October 2015 military crosswalk source file
72	MILITARY/MILX1113.PDF	223	Description of November 2013 military crosswalk source file
73	MILITARY/MILX0712.PDF	221	Description of July 2012 military crosswalk source file
74	MILITARY/MILX1014.PDF	221	Description of October 2014 military crosswalk source file
75	MILITARY/MILX1114.PDF	221	Description of November 2014 military crosswalk source file

## Appendix C

### Downloads of State-Specific WID Files by State

<b>State</b>	<b>Downloads</b>		<b>State</b>	<b>Downloads</b>
Alabama	1,284		Montana	1,050
Alaska	928		Nebraska	1,301
Arizona	1,170		Nevada	842
Arkansas	1,213		New Hampshire	880
California	885		New Jersey	825
Colorado	1,167		New Mexico	1,054
Connecticut	995		New York	1,000
Delaware	927		North Carolina	980
District of Columbia	1,198		North Dakota	816
Florida	1,060		Ohio	830
Georgia	1,328		Oklahoma	1,038
Hawaii	1,167		Oregon	951
Idaho	1,068		Pennsylvania	752
Illinois	1,179		Puerto Rico	181
Indiana	815		Rhode Island	843
Iowa	1,153		South Carolina	1,155
Kansas	1,371		South Dakota	1,122
Kentucky	817		Tennessee	1,021
Louisiana	1,244		Texas	774
Maine	904		Utah	682
Maryland	1,151		Vermont	776
Massachusetts	694		Virginia	770
Michigan	927		Washington	866
Minnesota	945		West Virginia	865
Mississippi	910		Wisconsin	813
Missouri	943		Wyoming	741