



FedScope Employment Cube

December 2009

Raw Data Set

Prepared for: Data.gov



Raw Data Set (<http://www.data.gov/>)

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1 OVERVIEW

1.1 Purpose

The purpose of this raw data set is to increase public access to high value, machine readable datasets generated by the U.S. Office of Personnel Management. The FedScope Employment Cube data sets are available via Data.gov.

1.2 Scope

The scope of this raw data set includes data elements used in the creation of the FedScope Employment Cube (<https://www.fedscope.opm.gov/>). **NOTE:** Starting in FY 2010, the OPM Statistical Data Mart (SDM) is the source for all FedScope data. The SDM is processed data from the Enterprise Human Resources Integration (EHRI) data warehouse. Data is processed on a quarterly basis (i.e. March, June, September and December).

2 RAW DATA SET FILE

2.1 FACTDATA

This “**delimited**” (comma separated value (**CSV**)) raw data set provides employee population data as of December 2009. Each column value is separated by a “**comma**” from the next column's value and each row starts a new record. Each record contains 20 data elements. The record layout for FACTDATA.TXT is depicted in [Table 2.1](#) below:



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Table 2.1: FACTDATA.TXT Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|---------------------------------|-------------------------------------|-----------------|-------------------|
| 1 | Agency | AGYSUB | TEXT |
| 2 | Location | LOC | TEXT |
| 3 | Age | AGELVL | TEXT |
| 4 | Education Level | EDLVL | TEXT |
| 5 | General Schedule & Equivalent Grade | GSEGRD | TEXT |
| 6 | Length of Service | LOSLVL | TEXT |
| 7 | Occupation | OCC | TEXT |
| 8 | Occupation Category | PATCO | TEXT |
| 9 | Pay Plan & Grade | PPGRD | TEXT |
| 10 | Salary Level | SALLVL | TEXT |
| 11 | STEM Occupations | STEMOCC | TEXT |
| 12 | Supervisory Status | SUPERVIS | TEXT |
| 13 | Type of Appointment | TOA | TEXT |
| 14 | Work Schedule | WORKSCH | TEXT |
| 15 | Work Status | WORKSTAT | TEXT |
| 16 | Date (e.g. 200912) | DATECODE | TEXT |
| 17 | Employment | EMPLOYMENT | NUMERIC |
| 18 | Average Salary | SALARY | NUMERIC |
| 19 | Average Length of Service | LOS | NUMERIC |
| Total Records: 2,044,589 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-17 from “General” to “Text”. Columns 18-20 can be imported as “General” data format. In Excel, the “General” data format converts numeric values to numbers. Columns 1-17 are TEXT fields; Columns 18-20 are NUMERIC fields.



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3 DIMENSION TRANSLATIONS FILES

3.1 Agency

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the agency data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column's value and each row starts a new record. Each record contains 6 data elements. The record layout for DTagy.txt is depicted in [Table 3.1](#) below:

Table 3.1: DTagy.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|---------------------------|--------------------------------|-----------------|-------------------|
| 1 | Agency Type | AGYTYP | TEXT |
| 2 | Agency Type Translation | AGYTYPT | TEXT |
| 3 | Agency | AGY | TEXT |
| 4 | Agency Translation | AGYT | TEXT |
| 5 | Agency Sub element | AGYSUB | TEXT |
| 6 | Agency Sub element Translation | AGYSUBT | TEXT |
| Total Records: 529 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-6 from “General” to “Text”.



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3.2 Location

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the location data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column's value and each row starts a new record. Each record contains 4 data elements. The record layout for DTloc.txt is depicted in [Table 3.2](#) below:

Table 3.2: DTloc.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|---------------------------|---------------------------|-----------------|-------------------|
| 1 | Location Type | LOCTYP | TEXT |
| 2 | Location Type Translation | LOCTYPT | TEXT |
| 3 | State/Country | LOC | TEXT |
| 4 | State/Country Translation | LOCT | TEXT |
| Total Records: 226 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-4 from “General” to “Text”.

3.3 Age

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the age data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column's value and each row starts a new record. Each record contains 2 data elements. The record layout for DTagelvl.txt is depicted in [Table 3.3](#) below:

Table 3.3: DTagelvl.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|-------------------|-----------------|-------------------|
| 1 | Age | AGELVL | TEXT |
| 2 | Age Translation | AGELVLT | TEXT |
| Total Records: 12 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.



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3.4 Education Level

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the education level data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 4 data elements. The record layout for DTedlvl.txt is depicted in [Table 3.4](#) below:

Table 3.4: DTedlvl.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|----------------------------------|------------------------|--------------------------|
| 1 | Education Level Type | EDLVLTYP | TEXT |
| 2 | Education Level Type Translation | EDLVLTYP | TEXT |
| 3 | Education Level | EDLVL | TEXT |
| 4 | Education Level Translation | EDLVLT | TEXT |
| Total Records: 24 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-4 from “General” to “Text”.



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3.5 General Schedule & Equivalent Grade

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the general schedule & equivalent grade data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 1 data element. The record layout for DTgsegrd.txt is depicted in [Table 3.5](#) below:

Table 3.5: DTgsegrd.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|-------------------------------------|-----------------|-------------------|
| 1 | General Schedule & Equivalent Grade | GSEGRD | TEXT |
| Total Records: 17 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for column 1-from “General” to “Text”.

3.6 Length of Service

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the length of service data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 2 data elements. The record layout for DTloslvt.txt is depicted in [Table 3.6](#) below:

Table 3.6: DTloslvt.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|-------------------------------|-----------------|-------------------|
| 1 | Length of Service | LOSLVL | TEXT |
| 2 | Length of Service Translation | LOSLVLT | TEXT |
| Total Records: 11 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.



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3.7 Occupation

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the occupation data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 6 data elements. The record layout for DTocc.txt is depicted in [Table 3.7](#) below:

Table 3.7: DTocc.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|---------------------------|-------------------------------|-----------------|-------------------|
| 1 | Occupation Type | OCCTYP | TEXT |
| 2 | Occupation Type Translation | OCCTYPT | TEXT |
| 3 | Occupation Family | OCCFAM | TEXT |
| 4 | Occupation Family Translation | OCCFAMT | TEXT |
| 5 | Occupation | OCC | TEXT |
| 6 | Occupation Translation | OCCT | TEXT |
| Total Records: 734 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-6 from “General” to “Text”.

3.8 Occupation Category

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the occupation category data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 2 data elements. The record layout for DTpatco.txt is depicted in [Table 3.8](#) below:

Table 3.8: DTpatco.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|-------------------------|---------------------------------|-----------------|-------------------|
| 1 | Occupation Category | PATCO | TEXT |
| 2 | Occupation Category Translation | PATCOT | TEXT |
| Total Records: 7 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.



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3.9 Pay Plan & Grade

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the pay plan & grade data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 7 data elements. The record layout for DTppgrd.txt is depicted in [Table 3.9](#) below:

Table 3.9: DTppgrd.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|-----------------------------|----------------------------|-----------------|-------------------|
| 1 | Pay Plan Type | PPTYP | TEXT |
| 2 | Pay Plan Type Translation | PPTYPT | TEXT |
| 3 | Pay Plan Group | PPGROUP | TEXT |
| 4 | Pay Plan Group Translation | PPGROUPT | TEXT |
| 5 | Pay Plan | PAYPLAN | TEXT |
| 6 | Pay Plan Translation | PAYPLANT | TEXT |
| 7 | Pay Plan & Grade | PPGRD | TEXT |
| Total Records: 1,085 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-7 from “General” to “Text”.

3.10 Salary Level

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the salary level data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 2 data elements. The record layout for DTsallvl.txt is depicted in [Table 3.10](#) below:

Table 3.10: DTsallvl.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|--------------------------|-----------------|-------------------|
| 1 | Salary Level | SALLVL | TEXT |
| 2 | Salary Level Translation | SALLVLT | TEXT |
| Total Records: 19 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.



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3.11 STEM Occupations

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the STEM occupations data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 6 data elements. The record layout for DTstemocc.txt is depicted in [Table 3.11](#) below:

Table 3.11: DTstemocc.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|---------------------------------------|-----------------|-------------------|
| 1 | STEM Occupation Aggregate | STEMAGG | TEXT |
| 2 | STEM Occupation Aggregate Translation | STEMAGGT | TEXT |
| 3 | STEM Occupation Type | STEMTYP | TEXT |
| 4 | STEM Occupation Type Translation | STEMTYPT | TEXT |
| 5 | STEM Occupation | STEMOCC | TEXT |
| 6 | STEM Occupation Translation | STEMOCCT | TEXT |
| Total Records: 69 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-6 from “General” to “Text”.

3.12 Supervisory Status

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the supervisory status data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 4 data elements. The record layout for DTsuper.txt is depicted in [Table 3.12](#) below:

Table 3.12: DTsuper.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|-------------------------|-------------------------------------|-----------------|-------------------|
| 1 | Supervisory Status Type | SUPERTYP | TEXT |
| 2 | Supervisory Status Type Translation | SUPERTYPT | TEXT |
| 3 | Supervisory Status | SUPERVIS | TEXT |
| 4 | Supervisory Status Translation | SUPERVIST | TEXT |
| Total Records: 7 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-4 from “General” to “Text”.



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3.13 Type of Appointment

This “delimited” (comma separated value (CSV)) data file provides translations for the type of appointment data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “comma” from the next column’s value and each row starts a new record. Each record contains 4 data elements. The record layout for DTtoa.txt is depicted in [Table 3.13](#) below:

Table 3.13: DTtoa.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|--------------------------------------|-----------------|-------------------|
| 1 | Type of Appointment Type | TOATYP | TEXT |
| 2 | Type of Appointment Type Translation | TOATYPT | TEXT |
| 3 | Type of Appointment | TOA | TEXT |
| 4 | Type of Appointment Translation | TOAT | TEXT |
| Total Records: 21 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-4 from “General” to “Text”.

3.14 Work Schedule

This “delimited” (comma separated value (CSV)) data file provides translations for the work schedule data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “comma” from the next column’s value and each row starts a new record. Each record contains 4 data elements. The record layout for DTwrksch.txt is depicted in [Table 3.14](#) below:

Table 3.14: DTwrksch.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|--------------------------|--------------------------------|-----------------|-------------------|
| 1 | Work Schedule Type | WSTYP | TEXT |
| 2 | Work Schedule Type Translation | WSTYPT | TEXT |
| 3 | Work Schedule | WORKSCH | TEXT |
| 4 | Work Schedule Translation | WORKSCHT | TEXT |
| Total Records: 12 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-4 from “General” to “Text”.



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3.15 Work Status

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the work status data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 2 data elements. The record layout for DTwkstat.txt is depicted in [Table 3.15](#) below:

Table 3.15: DTwkstat.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|-------------------------|-------------------------|-----------------|-------------------|
| 1 | Work Status | WORKSTAT | TEXT |
| 2 | Work Status Translation | WORKSTATT | TEXT |
| Total Records: 2 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.

3.16 Date

This “**delimited**” (comma separated value (**CSV**)) data file provides translations for the status file month date data element contained in the employee population data file (FACTDATA.TXT). See [Table 2.1](#). Each column value is separated by a “**comma**” from the next column’s value and each row starts a new record. Each record contains 2 data elements. The record layout for DTdate.txt is depicted in [Table 3.16](#) below:

Table 3.16: DTdate.txt Record Layout

| Data Column | DATA ELEMENT NAME | CSV Column Name | CSV Column Format |
|-------------------------|-----------------------|-----------------|-------------------|
| 1 | File Date | DATECODE | TEXT |
| 2 | File Date Translation | DATECODET | TEXT |
| Total Records: 1 | | | |

NOTE: If importing this table (data set) into Excel, change the “column data format” for columns 1-2 from “General” to “Text”.



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3.17 Employment

There is no translation file for this data element. Every record in the employee population data file (FACTDATA.TXT) contains a value of "1" for this field. See Chapter [4.17](#) for definition of [Employment](#).

3.18 Average Salary

There is no translation file for this data element. See Chapter [4.18](#) for definition of [Average Salary](#) Average Salary.

3.19 Average Length of Service

There is no translation file for this data element. See Chapter [4.19](#) for definition of [Average Length of Service](#)



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4 DATA DEFINITIONS

4.1 Agency

The employing organization.

4.2 Location

The official duty station of an employee. Locations in the United States are defined in terms of states. Locations outside the United States are defined in terms of countries and U.S. territories.

4.3 Age

An employee's age. Age is displayed in five-year intervals, except for an initial interval of less than 20 years and a final interval of 65 years or more.

4.4 Education Level

The extent of an employee's educational attainment from an accredited institution.

4.5 General Schedule & Equivalent Grade

The General Schedule grade for pay plans in the General Schedule and Equivalent pay plan category (See [Pay Plan & Grade](#)).

4.6 Length of Service

The number of years of Federal civilian employment, creditable military service, and other service made creditable by specific legislation. Length of service is grouped by five-year intervals, except for:

- a. the initial intervals of less than 1 year, 1-2 years, and 3-4 years and
- b. the final interval of 35 years or more.

4.7 Occupation

An employee's occupation as defined by the Office of Personnel Management (OPM).

4.8 Occupation Category

Occupational categories are defined by the educational requirements of the occupation and the subject matter and level of difficulty or responsibility of the work.



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4.9 Pay Plan & Grade

The pay system and, where applicable, the grade used to determine an employee's basic pay rate. Grade denotes a hierarchical position in a pay plan and is sometimes referred to as level, class, rank, or pay band.

4.10 Salary Level

An employee's adjusted basic pay, which is an annualized rate of pay. Adjusted basic pay is the sum of an employee's rate of basic pay plus any locality comparability payment and/or special pay adjustment for law enforcement officers. Salaries are grouped by \$10,000 intervals, except for an initial interval of less than \$20,000 and a final interval of \$180,000 or more.

An employee's actual earnings may be more or less than the annualized rate because of factors such as overtime, shift differentials, less than full time work, or leave without pay.

4.11 STEM Occupations

Listing of occupations grouped into the following four occupational series:

1. **Science**
2. **Technology**
3. **Engineering**
4. **Mathematics**

4.12 Supervisory Status

The nature of managerial, supervisory, or non-supervisory responsibility assigned to an employee's position.

4.13 Type of Appointment

An employee's appointment in terms of permanence and competitiveness.

4.14 Work Schedule

The time basis on which an employee is scheduled to work.

4.15 Work Status

A combination of Type of Appointment and Work Schedule data elements. The Work Status data element is limited to "Non-Seasonal Full Time Permanent" and "Other Employees".

4.16 Date

The file date (e.g. December 2009 represented by 200912).



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4.17 Employment

A measure representing the number of employees in pay status at the end of the quarter (or end of the pay period prior to the end of the quarter).

4.18 Average Salary

A measure representing the average adjusted basic pay, an annualized rate of pay. Adjusted basic pay is the sum of an employee's rate of basic pay and any locality comparability payment and/or special pay adjustment for law enforcement officers.

An employee's actual earnings may be more or less than the annualized rate because of factors such as overtime, shift differentials, less than full time work, or leave without pay.

Invalid salary values are excluded from the average. A large number of invalid values could invalidate the average. To obtain counts of invalid values, display the data using the Salary Level dimension (See [Salary Level](#)).

4.19 Average Length of Service

A measure representing the average number of years of Federal civilian employment and creditable military service.

Invalid values are excluded from the average. A large number of invalid values could invalidate the average. To obtain counts of invalid values, display the data using the Length of Service dimension (See [Length of Service](#)).



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5 APPENDIX

5.1 *SAS Program to Read Raw Data Sets for Data Analysis*

The SAS program below will read in the Employment cube Raw data sets and create 17 temporary SAS data sets for data analysis:

- [ReadRawData_CreateTempDatasets_DataGov.sas](#)

The SAS program above creates one "FACTDATA" table and 16 "Dimension Translations" tables. Refer to Chapter [2.1](#) and Chapter [3](#) for descriptive information pertaining to the 18 temporary SAS data sets (tables).

5.2 *FedScope General Public Web Site*

More information regarding this raw data set is available at:

- <https://www.fedscope.opm.gov/>

Questions/Comments to: <mailto:FedScope.opm.gov>