

Workforce Information Database

Depend on it.

**Workforce Information Database
Prototype Population Demographics Table**

**Analyst Resource Center
And
National Crosswalk Service Center**

Workforce Information Database Prototype Population Demographics Table

Introduction

Population demographics data have long been sought after by state, regional and local planning and economic development groups. The Analyst Resource Center has developed this prototype table structure, and the National Crosswalk Service Center has developed procedures for populating the structure with national, state, county and place data. The table was developed in order to place these data in the hands of state database administrators for delivery to their customers in order to further refine the table's structure and contents.

Development

The variables found in the table are based loosely on the demographics table found in the Economic Development/Employer Planning System (EDEPS) developed by the National Occupational Information Coordinating Committee (NOICC) in the late 1980s. The database tables used by this system were populated and the system was put into production in several states. (The structure for the EDEPS demographics table can be found in Appendix B of this document.) Changes were made to that structure to align the table with the WID:

- WID time and geography variables were added
- Margin of error estimates were added for variables for which they were found in the source data.
- Additional PERIODTYPE values were added for multi-year estimates (see Appendix A)

The variable list from the EDEPS table was selected because the table had been populated with census data in the past, and because the table had been received favorably when presented to regional planners. The table would be populated for states, with each table containing national, state, county and place estimates. The contents would be extracted from the 2000 Census with annual updates from the American Community Survey (ACS) beginning in 2002, the first year with a significant level of geographic detail. The number of areas included has grown over time. Counts of the number of counties and places included in selected ACS files follows:

	2005	2009	2007- 2009	2005- 2009
Counties	787	803	1,887	3,220
Places	499	539	2,114	25,301

(NOTE: The population in group quarters, included in the 2000 Census counts, was excluded from ACS coverage until 2006. You will see some population totals decline between 2000 and 2002 because of this change.)

The number of areas included increased slightly between 2005 and 2009 as more counties and places crossed the population threshold of 65,000. The introduction of three-year estimates in 2008 lowered the threshold to 20,000 and resulted in much greater geographic detail. Population thresholds were removed from the first release of five-year estimates in 2010 and those estimates contain estimates for all counties and places.

Use of Multi-year Estimates

While the introduction of multi-year ACS estimates has greatly increased the number of geographic areas for which estimates are available, it has also complicated comparisons across areas and time. The Census Bureau provides guidance on those comparisons at <http://www.census.gov/acs/www/UseData/compACS2006-2008.htm>. The following information was taken from that page (see that page for help on specific data items also):

Data users often want to compare the most current ACS data with data from Census 2000 and from previous ACS releases. Some comparisons might be inappropriate due to differences in questions or methods. This page provides guidance on these issues.

Users should take a few things into consideration.

1. Geographic boundaries for the area of interest may have changed. For more information, visit [How Multiyear Estimates are Produced](#).
2. Although the ACS produces estimates of population and housing, it is the Census Bureau's Population Estimates Program that produces and disseminates the [official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties](#). The ACS should be used to examine housing characteristics and demographic, social, and economic characteristics of the population.
3. The weighting for the group quarters (GQ) population is controlled at the state level, but not at the sub-state level. Users may observe greater fluctuations in year-to-year ACS estimates of the GQ population at sub-state levels than at state levels. Substantial changes in the substate ACS GQ estimates can impact substate ACS estimates of total population characteristics.
4. There are global differences that exist between the ACS and Census 2000. These include differences in residence rules, universes, and reference periods.

General Guidance

Comparing 2006-2008 ACS 3-Year Data with Census 2000 Data - The Census Bureau supports comparisons made between the 2006-2008 ACS 3-year data and Census 2000 data but cautions users about important differences between the two data sets. Item by item guidance is provided below.

Comparing 2006-2008 ACS 3-Year Data with 2008 ACS 1-Year Data - When comparing estimates across geographies or small population groups, users should compare the same period length for each estimate. Whenever you are comparing state-level data with sub-state data for an area with a population below 65,000 you should use the 3-year estimates for the state to compare with the 3-year estimates for the sub-state area.

Comparing 2006-2008 ACS 3-Year Data with 2005-2007 ACS 3-Year Data - Because of the complexities of interpretation, the Census Bureau discourages direct comparisons between estimates for overlapping periods. Ideally comparisons should be made based on non-overlapping periods (e.g. comparing a 2005-2007 ACS 3-year estimate with a 2008-2010 ACS 3-year estimate).

Users who are interested in comparing overlapping multiyear estimates should refer to [The ACS Compass Products handbooks](#), which include appendixes on using multiyear estimates and making comparisons (Appendix 1 and Appendix 4). The [State and Local Governments handbook](#) [PDF 1.2MB] provides the most detailed guidance and a case study on this issue. For additional information about the challenges of comparing overlapping multiyear estimates see: [Statistical Issues of Interpretation of ACS 1-, 3-, and 5-year Period Estimate](#). [PDF 679KB]

Table Population and Distribution

The demographics table brings together a large number of variables from a number of source files from the 2000 Census and the American Community Survey. The NCSC has developed a variety of database structures and tools required to make these transitions, and will furnish state-specific files upon request. To request files or ask questions about the files, contact the NCSC at NCSC@iowa.gov.

Prototype Population Demographics File Structure
Analyst Resource Center
May 2010

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
Column	Type	Constraint	Description
stfips	char(2)	Primary Key 1,3	State FIPS code.
areatype	char(2)	Primary Key 1	Code describing type of geographic area: e.g. county, service delivery area, MSA.
area	char(6)	Primary Key 1	Six-digit code assigned to represent a geographic area. Front fill with zeroes.
periodyear	char(4)	Primary Key 2	Character representation of calendar year (e.g. 1996).
periodtype	char(2)	Primary Key 2	Code describing type of period (e.g. annual, quarterly, monthly, etc.)
period	char(2)	Primary Key 2	Period Code. Will be set to '00' where periodtype is annual.
popsourc	char(1)	Primary Key 3	Source Code for population data.
population	number(9)		Number representing the population total for the specified geographic area and time period.
populationme	number(9)		Total population margin of error (\pm)
female	number(9)		Total female population
femaleme	number(9)		Total female population margin of error (\pm)
male	number(9)		Total male population
maleme	number(9)		Total male population margin of error (\pm)
median	number(4,1)		Population median age
medianme	number(4,1)		Population median age margin of error (\pm)
medianmale	number(4,1)		Male population median age
medianmaleme	number(4,1)		Male median age margin of error (\pm)
medianfem	number(4,1)		Female population median age
medianfemme	number(4,1)		Female median age margin of error (\pm)
totunder5	number(9)		Total population age under 5
femunder5	number(9)		Female population age under 5
femunder5me	number(9)		Female population age under 5 margin of error (\pm)
maleunder5	number(9)		Female population age under 5
maleunder5me	number(9)		Female population age under 5 margin of error (\pm)

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
tot5to9	number(9)		Total population age 5-9
fem5to9	number(9)		Female population age 5-9
fem5to9me	number(9)		Female population age 5-9 margin of error (\pm)
male5to9	number(9)		Male population age 5-9
male5to9me	number(9)		Male population age 5-9 margin of error (\pm)
tot10to14	number(9)		Total population age 10-14
fem10to14	number(9)		Female population age 10-14
fem10to14me	number(9)		Female population age 10-14 margin of error (\pm)
male10to14	number(9)		Female population age 10-14
male10to14me	number(9)		Female population age 10-14 margin of error (\pm)
tot15to19	number(9)		Total population age 15-19
fem15to19	number(9)		Female population age 15-19
male15to19	number(9)		Male population age 15-19
tot15to17	number(9)		Total population age 15-17
fem15to17	number(9)		Female population age 15-17
fem15to17me	number(9)		Female population age 15-17 margin of error (\pm)
male15to17	number(9)		Male population age 15-17
male15to17me	number(9)		Male population age 15-17 margin of error (\pm)
tot18to19	number(9)		Total population age 18-19
fem18to19	number(9)		Female population age 18-19
fem18to19me	number(9)		Female population age 18-19 margin of error (\pm)
male18to19	number(9)		Male population age 18-19
male18to19me	number(9)		Male population age 18-19 margin of error (\pm)
tot20to24	number(9)		Total population age 20-24
fem20to24	number(9)		Female population age 20-24
male20to24	number(9)		Male population age 20-24
tot20	number(9)		Total population age 20
fem20	number(9)		Female population age 20
fem20me	number(9)		Female population age 20 margin of error (\pm)
male20	number(9)		Male population age 20
male20me	number(9)		Male population age 20 margin of error (\pm)
tot21	number(9)		Total population age 21
fem21	number(9)		Female population age 21
fem21me	number(9)		Female population age 21 margin of error (\pm)
male21	number(9)		Male population age 21
male21me	number(9)		Male population age 21 margin of error (\pm)
tot22to24	number(9)		Total population age 22-24
fem22to24	number(9)		Female population age 22-24
fem22to24me	number(9)		Female population age 22-24 margin of error (\pm)
male22to24	number(9)		Male population age 22-24
male22to24me	number(9)		Male population age 22-24 margin of error (\pm)
tot25to34	number(9)		Total population age 25-34
fem25to34	number(9)		Female population age 25-34
male25to34	number(9)		Male population age 25-34
tot25to29	number(9)		Total population age 25-29

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
fem25to29	number(9)		Female population age 25-29
fem25to29me	number(9)		Female population age 25-29 margin of error (±)
male25to29	number(9)		Male population age 25-29
male25to29me	number(9)		Male population age 25-29 margin of error (±)
tot30to34	number(9)		Total population age 29-34
fem30to34	number(9)		Female population age 29-34
fem30to34me	number(9)		Female population age 29-34 margin of error (±)
male30to34	number(9)		Male population age 29-34
male30to34me	number(9)		Male population age 29-34 margin of error (±)
tot35to44	number(9)		Total population age 35-44
fem35to44	number(9)		Female population age 35-44
male35to44	number(9)		Male population age 35-44
tot35to39	number(9)		Total population age 35-39
fem35to39	number(9)		Female population age 35-39
fem35to39me	number(9)		Female population age 35-39 margin of error (±)
male35to39	number(9)		Male population age 35-39
male35to39me	number(9)		Male population age 35-39 margin of error (±)
tot40to44	number(9)		Total population age 40-44
fem40to44	number(9)		Female population age 40-44
fem40to44me	number(9)		Female population age 40-44 margin of error (±)
male40to44	number(9)		Male population age 40-44
male40to44me	number(9)		Male population age 40-44 margin of error (±)
tot45to54	number(9)		Total population age 45-54
fem45to54	number(9)		Female population age 45-54
male45to54	number(9)		Female population age 45-54
tot45to49	number(9)		Total population age 45-49
fem45to49	number(9)		Female population age 45-49
fem45to49me	number(9)		Female population age 45-49 margin of error (±)
male45to49	number(9)		Male population age 45-49
male45to49me	number(9)		Male population age 45-49 margin of error (±)
tot50to54	number(9)		Total population age 50-54
fem50to54	number(9)		Female population age 50-54
fem50to54me	number(9)		Female population age 50-54 margin of error (±)
male50to54	number(9)		Female population age 50-54
male50to54me	number(9)		Female population age 50-54 margin of error (±)
tot55to59	number(9)		Total population age 55-59
fem55to59	number(9)		Female population age 55-59
fem55to59me	number(9)		Female population age 55-59 margin of error (±)
male55to59	number(9)		Male population age 55-59
male55to59me	number(9)		Male population age 55-59 margin of error (±)
tot60to64	number(9)		Total population age 60-64
fem60to64	number(9)		Female population age 60-64
male60to64	number(9)		Male population age 60-64
tot60to61	number(9)		Total population age 60-61
fem60to61	number(9)		Female population age 60-61

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
fem60to61me	number(9)		Female population age 60-61 margin of error (\pm)
male60to61	number(9)		Male population age 60-61
male60to61me	number(9)		Male population age 60-61 margin of error (\pm)
tot62to64	number(9)		Total population age 62-64
fem62to64	number(9)		Female population age 62-64
fem62to64me	number(9)		Female population age 62-64 margin of error (\pm)
male62to64	number(9)		Male population age 62-64
male62to64me	number(9)		Male population age 62-64 margin of error (\pm)
tot65to74	number(9)		Total population age 65-74
fem65to74	number(9)		Female population age 65-74
male65to74	number(9)		Male population age 65-74
tot65to66	number(9)		Total population age 65-66
fem65to66	number(9)		Female population age 65-66
fem65to66me	number(9)		Female population age 65-66 margin of error (\pm)
male65to66	number(9)		Male population age 65-66
male65to66me	number(9)		Male population age 65-66 margin of error (\pm)
tot67to69	number(9)		Total population age 67-69
fem67to69	number(9)		Female population age 67-69
fem67to69me	number(9)		Female population age 67-69 margin of error (\pm)
male67to69	number(9)		Male population age 67-69
male67to69me	number(9)		Male population age 67-69 margin of error (\pm)
tot70to74	number(9)		Total population age 70-74
fem70to74	number(9)		Female population age 70-74
fem70to74me	number(9)		Female population age 70-74 margin of error (\pm)
male70to74	number(9)		Male population age 70-74
male70to74me	number(9)		Male population age 70-74 margin of error (\pm)
tot75to84	number(9)		Total population age 75-84
fem75to84	number(9)		Female population age 75-84
male75to84	number(9)		Male population age 75-84
tot75to79	number(9)		Total population age 75-79
fem75to79	number(9)		Female population age 75-79
fem75to79me	number(9)		Female population age 75-79 margin of error (\pm)
male75to79	number(9)		Male population age 75-79
male75to79me	number(9)		Male population age 75-79 margin of error (\pm)
tot80to84	number(9)		Total population age 80-84
fem80to84	number(9)		Female population age 80-84
fem80to84me	number(9)		Female population age 80-84 margin of error (\pm)
male80to84	number(9)		Male population age 80-84
male80to84me	number(9)		Male population age 80-84 margin of error (\pm)
tot85xx	number(9)		Total population age 85 and over
fem85xx	number(9)		Female population age 85 and over
fem85xxme	number(9)		Female population age 85 and over margin of error (\pm)
male85xx	number(9)		Male population age 85 and over
male85xxme	number(9)		Male population age 85 and over margin of error

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
			(±)
tot18xx	number(9)		Total population age 18 and over
fem18xx	number(9)		Female population age 18 and over
male18xx	number(9)		Male population age 18 and over
tot21xx	number(9)		Total population age 21 and over
fem21xx	number(9)		Female population age 21 and over
male21xx	number(9)		Male population age 21 and over
tot62xx	number(9)		Total population age 62 and over
fem62xx	number(9)		Female population age 62 and over
male62xx	number(9)		Male population age 62 and over
onerace	number(9)		Population: one race
oneraceme	number(9)		Population: one race margin of error (±)
white	number(9)		One race: White
whiteme	number(9)		One race: White margin of error (±)
black	number(9)		One race: Black or African American
blackme	number(9)		One race: Black or African American margin of error (±)
naan	number(9)		One race: American Indian or Alaskan Native
naanme	number(9)		One race: American Indian or Alaskan Native margin of error (±)
asian	number(9)		One race: Asian
asianme	number(9)		One race: Asian margin of error (±)
pacisland	number(9)		One race: Native Hawaiian and Other Pacific Islander
pacislandme	number(9)		One race: Native Hawaiian and Other Pacific Islander margin of error (±)
other	number(9)		One race: Other
otherme	number(9)		One race: Other margin of error (±)
twomoraces	number(9)		Two or more races
twomoracesme	number(9)		Two or more races margin of error (±)
hispanic	number(9)		Hispanic or Latino
hispanicme	number(9)		Hispanic or Latino margin of error (±)
hispwhite	number(9)		Hispanic or Latino: White Alone
hispwhiteme	number(9)		Hispanic or Latino: White Alone margin of error (±)
hispblack	number(9)		Hispanic or Latino: Black or African American
hispblackme	number(9)		Hispanic or Latino: Black or African American margin of error (±)
hispnaan	number(9)		Hispanic or Latino: American Indian or Alaskan Native
hispnaanme	number(9)		Hispanic or Latino: American Indian or Alaskan Native margin of error (±)
hispsian	number(9)		Hispanic or Latino: Asian
hispsianme	number(9)		Hispanic or Latino: Asian margin of error (±)
hisppacisl	number(9)		Hispanic or Latino: Hawaiian and Other Pacific Islander

demographics		This table contains population estimates and demographic characteristics for a geographic area and time period.	
hisppacislme	number(9)		Hispanic or Latino: Hawaiian and Other Pacific Islander margin of error (\pm)
hispotherr	number(9)		Hispanic or Latino: Some other race alone
hispotherrme	number(9)		Hispanic or Latino: Some other race alone margin of error (\pm)
hisp2race	number(9)		Hispanic or Latino: Two or more races
hisp2raceme	number(9)		Hispanic or Latino: Two or more races margin of error (\pm)
Constraint Information			
<p>1 Foreign Key (demographics.stfips, demographics.areatype, demographics.area) references (geog.stfips, geog.areatype, geog.area)</p> <p>2 Foreign Key (demographics.periodyear, demographics.periodtype, demographics.period) references (period.periodyear, period.periodtype, period.period)</p> <p>3 Foreign Key (demographics.stfips, demographics.popsourc) references (popsourc.stfips, popsourc.popsourc)</p>			

Appendix A
Suggested Field Values (Changes in bold)

periodtype	01 = Annual 02 = Quarter 03 = Monthly 04 = Weekly 05 = Decennial 06 = BIMONTHLY 07 = SEMIALLUALLY 08 = BIANNUALLY 36 = 3-year estimates* 60 = 5-year estimates* 99 = Not Applicable 50-70 = STATE-DEFINED PERIOD TYPES (EXCEPT 60) * For multi-year estimates, PERIODYEAR should be set to the terminal year, e.g., 2008 for 2006-2008 estimates.
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popsource	1 = Census 2 = BEA 3 = American Community Survey 6-9 = State-Defined Population Sources
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Appendix B EDEPS Demographics Table Structure

A3.0. Population Trends.

The data for Module A3 will be stored in a single data file named EDPOP.DBF.

A3.1. File EDPOP.DBF.

Each record in file EDPOP.DBF will describe demographic characteristics for a single geographic unit. The preliminary plan anticipates 200 separate data fields. Figures A3-1 and A3-2 show the set of data fields which might be available to describe demographic characteristics.

Figure A3-1
Record Format for File EDPOP.DBF (Part A)

Field Name	Type	Width	Contents
P_GEOGTYPE	C	1	Type of geographic unit (as in EDGEOG.DBF)
P_GEOGCODE	C	3	Code for geographic unit (as in EDGEOG.DBF)
P_YEAR	C	4	Reporting year for decinial census data
P_PER00XX	N	9.0	Persons age 00 and older
P_FEM00XX	N	9.0	Females age 00 and older
P_PER0004	N	9.0	Persons age 00 to 04
P_FEM0004	N	9.0	Females age 00 to 04
P_PER0509	N	9.0	Persons age 05 to 09
etc. for 22 additional population categories			
P_FEM75XX	N	9.0	Females age 75 and older
P_WHITE	N	9.0	Persons, racial group = White
P_BLACK	N	9.0	Persons, racial group = Black
P_NATIVE	N	9.0	Persons, racial group = Native American
P_ASIAN	N	9.0	Persons, racial group = Asian & Pacific Isl
P_RACEOTHR	N	9.0	Persons, racial group = Other
P_HISPANIC	N	9.0	Persons, Hispanic, any race
P_URBAN	N	9.0	Persons, urban
P_RURAL	N	9.0	Persons, rural
H_VAR1	N	9.0	Pers, fam hh, householder
H_VAR2	N	9.0	Pers, fam hh, spouse
H_VAR3	N	9.0	Pers, fam hh, other relative
H_VAR4	N	9.0	Pers, fam hh, nonrelative
H_VAR5	N	9.0	Pers, nonfam hh, male householder
H_VAR6	N	9.0	Pers, nonfam hh, female householder
H_VAR7	N	9.0	Pers, nonfam hh, nonrelative
H_VAR8	N	9.0	Pers, group qtr, inmates of instn
H_VAR9	N	9.0	Pers, group qtr, other
H_VAR10	N	9.0	Males 15+, single
H_VAR11	N	9.0	Females 15+, single
H_VAR12	N	9.0	Males 15+, married not separated
H_VAR13	N	9.0	Females 15+, married not separated
H_VAR14	N	9.0	Males 15+, separated
H_VAR15	N	9.0	Females 15+, separated

Figure A3-2
Record Format for File EDPOP.DBF (Part B)

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Field Name      Type      Width  Contents
H_VAR16         N         9.0    Males 15+, divorced
H_VAR17         N         9.0    Females 15+, divorced
H_VAR18         N         9.0    Households, total
H_VAR19         N         9.0    Households, married couple fam with child
etc for 14 additional household categories
E_VAR1          N         9.0    Persons 25+, 0-8 years school
etc for 13 additional educational categories
HS_YEAR         N         4      Reporting year for Health Stat data
HS_BIRTH        N         6.0    Number of births
HS_DEATH        N         6.0    Number of deaths
P1_YEAR         C         4      Reporting year for projections, time 1
P1_PER00XX      N         9.0    Proj 1, persons age 00 and older
P1_FEM00XX      N         9.0    Proj 1, females age 00 and older
P1_PER0006      N         9.0    Proj 1, persons age 00 to 06
P1_FEM0006      N         9.0    Proj 1, females age 00 to 06
etc for 20 additional categories of population projections to time 1
P2_YEAR         C         4      Reporting year for projections, time 2
P2_PER00XX      N         9.0    Proj 2, persons age 00 and older
P2_FEM00XX      N         9.0    Proj 2, females age 00 and older
P2_PER0006      N         9.0    Proj 2, persons age 00 to 06
P2_FEM0006      N         9.0    Proj 2, females age 00 to 06
etc for 20 additional categories of population projections to time 2
etc for roughly 60 additional data items to be determined later
  
```

** Data fields P_YEAR, HS_YEAR, P1_YEAR, and P2_YEAR permit a state to customize the reporting year for different sets of variables, and to use different years for large (eg, statewide) vs. small (eg, county) levels of geography.

XX

File EDPOP.DBF will contain varying numbers of records for the different states, depending on the geographic regions to be provided. Table A3-3 shows the geographic regions which are anticipated for the beta test in Pennsylvania. This table suggests a total of 265 records for the file. Each record will include approximately 1,800 bytes of information (200 data fields x 9 bytes for most of the fields). Given these assumptions, file EDPOP.DBF will have a size of roughly 500 Kilobytes.

Figure A3-3
Geographic Units Suggested for File EDPOP.DBF, Pennsylvania Data

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Number of Units  Type of Unit
1                National summary
1                Statewide summary
16              Standard Metropolitan Areas
30              Service Delivery Areas (JTPA)
67              Counties
150             Cities of 15,000 or more (approximate)
---
265             Approximate number of records needed in file
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  
```