

Environmental Justice in NEPA Documentation Process
(American FactFinder, Step-by-Step Guide)
04/03/2012

EJ Analysis and NEPA Documentation Levels

An environmental justice analysis is required for any project that may result in a disproportionately high adverse impact on a minority or low-income population in or near the project area. The requirements for analysis depend on the level of document and the type of impacts.

1. EA and EIS level documents: Demographic data should be obtained and analyzed before and/or during the scoping stage. The information obtained should be used in coordination planning and public involvement planning.
2. CE level documents:
 - a. No analysis required for projects that have fewer than two relocations or less than 0.5 acre of right of way.
 - b. Full analysis for projects that have two or more relocations or 0.5 acre or more of right of way.

Potential EJ impacts are detected by locating minority populations and low-income populations in and near the project area, calculating their percentage in the area relative to a reference population, and determining whether there will be adverse impacts to them. The reference community is typically a county, city, or town and is called the community of comparison (COC). The community that overlaps the project limits is called the affected community (AC). The AC needs to be contained within the COC.

An AC has a population of concern for environmental justice if the population is more than 50 percent minority or low-income or if the percentage of low-income population or minority population in the AC is 25 percent higher than the percentage of low-income or minority population in the COC.

Any disproportionate impact on an EJ population that cannot be eliminated in design requires notification of INDOT's Equal Opportunity division. The project will likely need to be processed as an EA.

Data Source

US Bureau of the Census decennial data for 2010 does not contain low income data. This is a result of a short questionnaire being used during the 2010 census compared to the long form questionnaire used in previous census surveys 2000, 1990, etc. This basically means that people's incomes, education, occupation, poverty status, and disabilities were not tabulated in the 2010 census data collection. Therefore, 2010 Summary File 1 or 2 will not be utilized in the EJ

analysis. As a result, American Community Survey (ACS) estimates will be used for both low income and minority data.

The ACS is a nationwide survey designed to provide communities with reliable and timely demographic, social, economic, and housing data every year. The U.S. Census Bureau releases data from the ACS in the form of both single-year and multiyear estimates.

Distinguishing features of ACS 1-year, 3-year, and 5-year estimates

| 1-year estimates | 3-year estimates | 5-year estimates |
|--|--|---|
| 12 months of collected data | 36 months of collected data | 60 months of collected data |
| Data for areas with populations of 65,000+ | Data for areas with populations of 20,000+ | Data for all areas |
| Smallest sampling size | Larger sample size than 1-year | Largest Sample Size |
| Less reliable than 3-year or 5-year | More reliable than 1-year; less reliable than 5-year | Most Reliable |
| Most current data | Less current than 1-year estimates; more current than 5 year | Least Current |
| Best used when | Best used when | Best used when |
| Currency is more important than precision. Analyzing large populations. | More precise than 1-year, more current than 5-year. Analyzing smaller populations. Examining smaller geographies because 1-year estimates are not available. | Precision is more important than currency. Analyzing very small populations. Examining tracts and other smaller geographies because 1-year estimates are not available. |

Source: http://www.census.gov/acs/www/guidance_for_data_users/estimates/

The dataset to be utilized in the EJ analysis should be the most reliable. For most projects’ ACS 5-year estimates should be used. In the event that 5-year estimates are not available, please use 3-year estimates. If 3-year estimates are not available, please use 1-year estimates.

Please note that minority and low income data is only available on the American FactFinder at the census tract level. Listed below is procedures for accessing 2010 Census data.

Procedures for utilizing 2000 Census data is available upon request. Census 2000 data should only be used in the event that 2010 Census data is not available for your geographic location.

If you have any questions concerning what dataset to use, please contact INDOT-Environmental Services, Environmental Policy Office.

Accessing Data from the Census

Data from the Census can be obtained through the following steps.

1. Open the Census website main page: <http://www.census.gov/>
2. Click on the graphic for Data at the top of the page and Select American FactFinder.



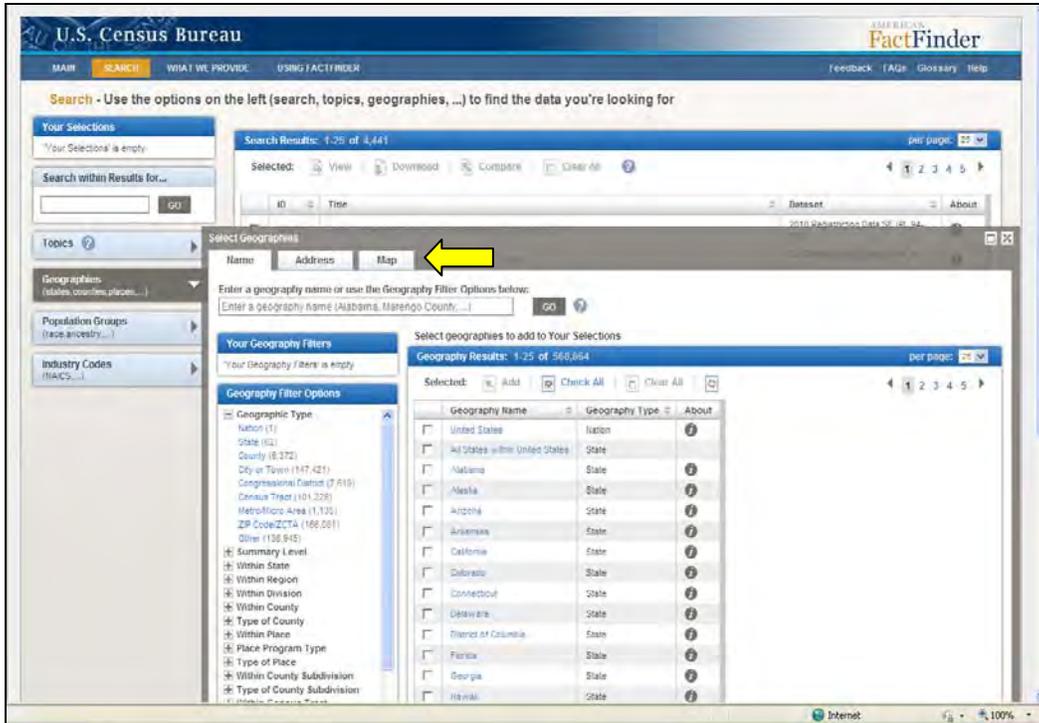
Steps 1 and 2: Navigate to the Census website

3. The American FactFinder is located at the following link <http://factfinder2.census.gov>

The screenshot shows the American FactFinder website interface. At the top, the U.S. Census Bureau logo is on the left, and navigation links for Feedback, FAQs, Glossary, and Help are on the right. Below the header, there are tabs for MAIN, SEARCH, WHAT WE PROVIDE, and USING FACTFINDER. A language selector shows English and Español. The main content area is titled "Your source for population, housing, economic, and geographic information" and features several icons representing different data categories. On the left, there are sections for "Your Selections" (currently empty), "Search using the options below:" with dropdown menus for Topics, Geographies, Race and Ethnic Groups, and Industry Codes, and "Getting Detailed Data" with a list of available data sources. The central area contains a "Quick Start" section with a search form for "topic or table name" and "state, county or place (optional)", a "GO" button, and radio buttons for "topics", "race/ancestry", and "industries". Below this is a "News and Notes" section with a "GET EMAIL UPDATES" button and a list of recent news items dated Mar 08, 2012, Mar 01, 2012, and Feb 16, 2012. On the right, there are sections for "U.S. Population Clock" showing the time and population count (313,153,027), "Reference Maps" with a dropdown for "United States" and a "GO" button, "Address Search" with a "Find Census data by entering a street address" prompt, and "Load Query" with a "LOAD QUERY" button.

Step 3: Navigate to the American FactFinder page

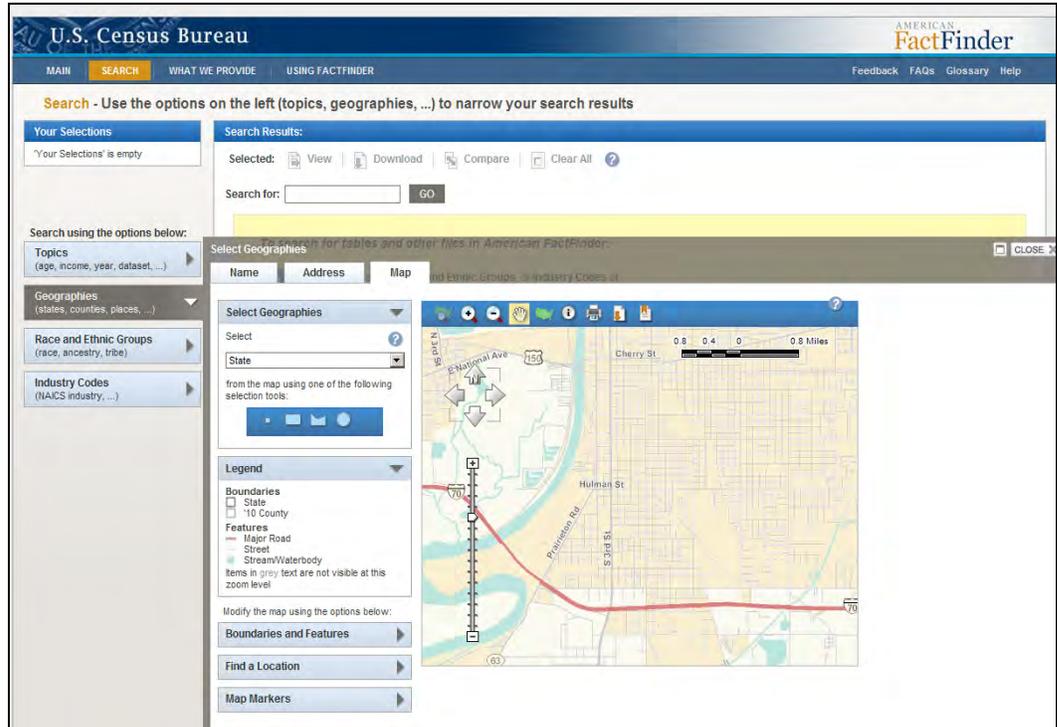
4. The American FactFinder page has several tools available. On the navigation bar on the left, choose *Geographies*. The *Select Geographies* window will appear allowing for Name, Address and Map searches. Please select the *Map* tab.



Step 4: Select the Geographies tab

5. The map feature will assist in the identification of the affected community (AC) and community of comparison (COC). (The COC is typically a county, city, or town and the community that overlaps the project limits is the AC.)

- a) First, locate your project area using the map tools above the map.



Step 5a: Navigate to your project location

- b) Once the location has been obtained, select the *Boundaries and Features* tab in the lower left corner of the *Select Geographies* window.

The screenshot displays the U.S. Census Bureau American FactFinder website. The main navigation bar includes 'MAIN', 'SEARCH', 'WHAT WE PROVIDE', and 'USING FACTFINDER'. The 'SEARCH' tab is active. Below the navigation bar, there is a search area with a 'Search for:' input field and a 'GO' button. To the left of the search area, there are several menu categories: 'Your Selections', 'Search using the options below:', 'Topics', 'Geographies', 'Race and Ethnic Groups', and 'Industry Codes'. A 'Select Geographies' window is open, showing a map of a city area with a red line indicating a selected location. The window has a 'Name', 'Address', and 'Map' tab. The 'Map' tab is selected, and the 'Boundaries and Features' tab is highlighted in the 'Modify the map using the options below:' section. A yellow arrow points to this tab. The legend in the window shows 'Boundaries' (State, 10 County) and 'Features' (Major Road, Street, Stream/Waterbody). The map shows streets like National Ave, Cherry St, Hulman St, and State St, and highways like 70 and 63. A scale bar indicates 0.8, 0.4, 0, and 0.8 Miles.

Step 5b: Select Boundaries and Features tab

- c) A new window will appear, please make sure that 2010 data is displayed. Under Boundaries, 2010 Census Tract and 2010 Block Group will need to be selected. (Both Boundary and Label should be checked). Click the Update button at the bottom of the window.

The screenshot displays a web application interface with a sidebar on the left and a main content area. The sidebar includes sections for 'Your Selections', 'Topics', 'Geographies', 'Race and Ethnic Groups', and 'Industry Codes'. The main content area features a search bar and a 'Select Geographies' dialog box. The dialog box is titled 'Display Boundaries and Features from 2010' and has two tabs: 'Boundaries' and 'Features'. The 'Boundaries' tab is active, showing a table with columns for 'Boundary', 'Label', and 'Name'. The table lists various geographic entities, with '2010 Census Tract' and '2010 Block Group' having both their 'Boundary' and 'Label' checkboxes checked. A yellow arrow points to the '2010 Block Group' row. The '2010 Census Tract' row also has both checkboxes checked. Other rows include '2010 County Subdivision', '2010 Subbarrio', '2010 Block', '2010 Place', '2010 Consolidated City', '2010 Alaska Native Regional Corporation', '2010 American Indian Area/Alaska Native Area/Hawaiian Home Land', '2010 Tribal Subdivision', '2010 American Indian Area Off-Reservation Trust Lands/Hawaiian Home Land', '2010 Tribal Census Tract', '2010 Tribal Block Group', '2010 Core Based Statistical Area', '2010 Principal City of CBSA', '2010 Metropolitan Division', '2010 Combined Statistical Area', and '2010 Combined New England City and Town Area'.

| Boundary | Label | Name |
|-------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Region |
| <input type="checkbox"/> | <input type="checkbox"/> | Division |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 County Subdivision |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Subbarrio |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Block |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2010 Census Tract |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2010 Block Group |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Place |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Consolidated City |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Alaska Native Regional Corporation |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 American Indian Area/Alaska Native Area/Hawaiian Home Land |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Tribal Subdivision |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 American Indian Area Off-Reservation Trust Lands/Hawaiian Home Land |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Tribal Census Tract |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Tribal Block Group |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Core Based Statistical Area |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Principal City of CBSA |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Metropolitan Division |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Combined Statistical Area |
| <input type="checkbox"/> | <input type="checkbox"/> | 2010 Combined New England City and Town Area |

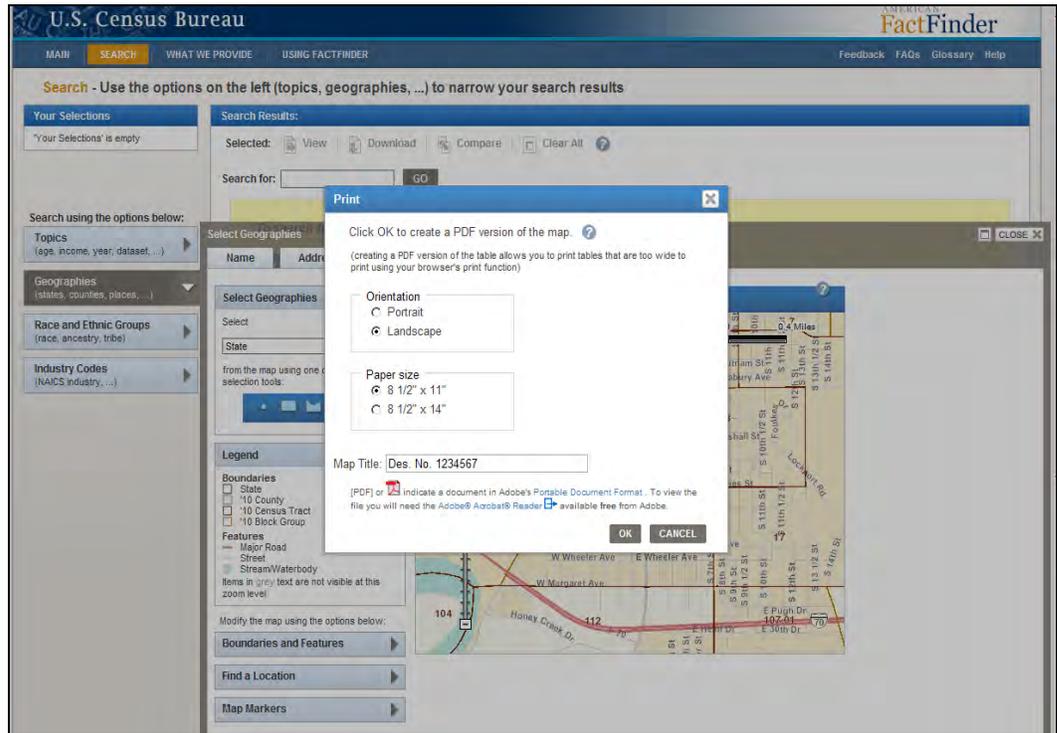
Step 5c: Select Block Groups and Census Tracts

d) The Map will now have Census Tracts and Block Groups displayed.

The screenshot displays the American FactFinder web application. At the top, the U.S. Census Bureau logo is on the left, and the American FactFinder logo is on the right. Below the logos are navigation tabs: MAIN, SEARCH, WHAT WE PROVIDE, and USING FACTFINDER. A search bar is present with a 'GO' button. The main content area is titled 'Search - Use the options on the left (topics, geographies, ...) to narrow your search results'. On the left side, there are several menu items: 'Your Selections' (empty), 'Search using the options below:', 'Topics (age, income, year, dataset, ...)', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Groups (race, ancestry, tribe)', and 'Industry Codes (NAICS industry, ...)'. A 'Select Geographies' window is open, showing a 'Select Geographies' dropdown menu with 'State' selected. Below this, there are selection tools and a legend. The legend includes 'Boundaries' (State, 10 County, 10 Census Tract, 10 Block Group) and 'Features' (Major Road, Street, Stream/Waterbody). The map itself shows a street grid with census tracts and block groups highlighted in yellow. A scale bar indicates 0.8 miles. The map is titled 'Search for tables and other files in American FactFinder'.

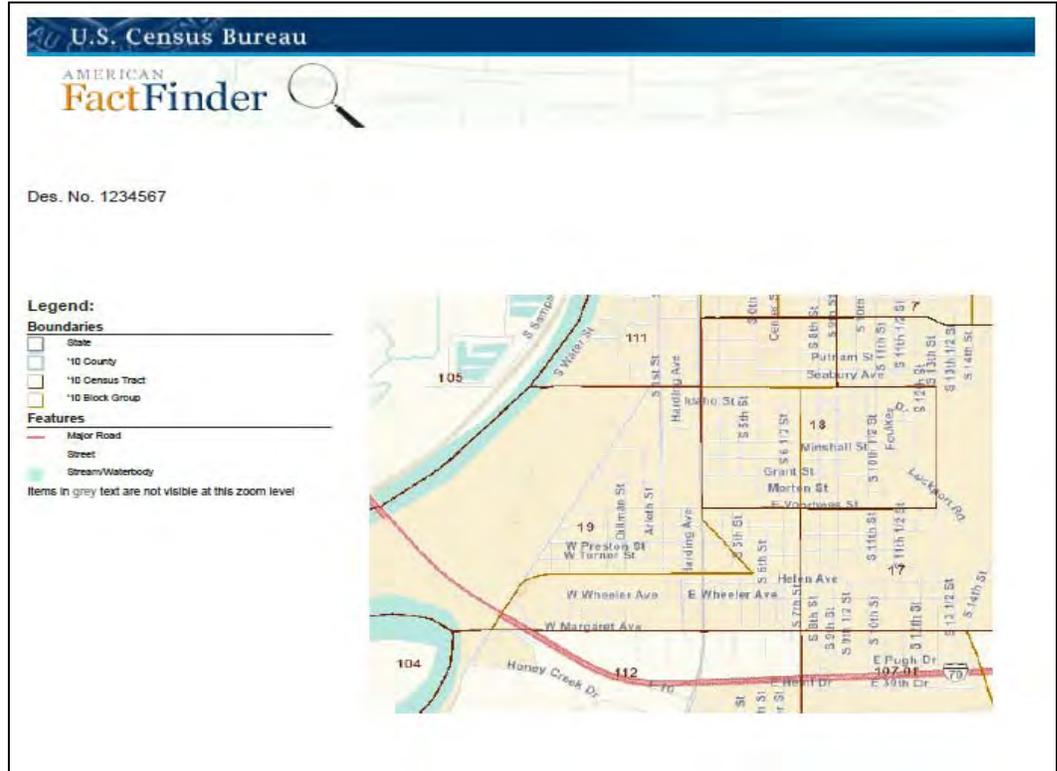
Step 5d: Census Tracts and Block Groups are now represented on the map

- e) Click the Download/Print button and select PDF & Landscape for the radio buttons.



Step 5e: Click the Download/Print option

f) A map will be generated and should be included in your EJ Analysis.



Step 5f: Provide EJ map with your EJ analysis

- On the *Select Geographies* page, several Geography Filter options are available. Select the appropriate COC & AC and then add them to your selection. If done correctly, the COC and AC will appear in Your Selections box.

The screenshot shows the 'Select Geographies' interface. On the left, the 'Your Selections' box is empty. Below it, there are filters for Topics, Geographies, Race and Ethnic Groups, and Industry Codes. The main area is titled 'Select Geographies' and includes a search bar and a 'GO' button. Below the search bar, there are 'Your Geography Filters' and 'Select geographies to add to Your Selections' sections. The 'Your Geography Filters' section has 'Geographic Type' expanded to 'City or Town (3)'. The 'Select geographies to add to Your Selections' section shows a table with 1 selected item: 'Terre Haute city, Indiana'.

| Geography Name | Geography Type | About |
|--|---|-------|
| <input checked="" type="checkbox"/> Terre Haute city, Indiana | Place within State | ? |
| <input type="checkbox"/> Terre Haute city, Indiana | Estimates Universe Place | ? |
| <input type="checkbox"/> Terre Haute city, Indiana | Economic Place | ? |
| <input type="checkbox"/> All Blocks within Terre Haute city, Indiana | Block | |
| <input type="checkbox"/> All Census Tracts (or parts) fully-or-partially within Terre Haute city, Indiana | Census Tract within County within Place | |
| <input type="checkbox"/> All 5-Digit ZIP Code Tabulation Areas fully-or-partially within Terre Haute city, Indiana | 5-Digit ZCTA | |
| <input type="checkbox"/> All 5-Digit ZIP Codes fully-or-partially within Terre Haute city, Indiana | 5-Digit ZIP Code | |

Step 6: Select the COC and add to “Your Selections”

The screenshot shows the 'Select Geographies' interface after selecting a Census Tract. The 'Your Selections' box now contains 'Place within State', 'Terre Haute city, Indiana', and 'Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana'. The '2 Selected' table shows the selected items: 'Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana' and 'Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana'.

| Geography Name | Geography Type | About |
|---|---|-------|
| <input type="checkbox"/> Census Tract 109 (part), Vigo County (part), Terre Haute city, Indiana | Census Tract within County within Place | ? |
| <input type="checkbox"/> Census Tract 111, Vigo County (part), Terre Haute city, Indiana | Census Tract within County within Place | ? |
| <input type="checkbox"/> Census Tract 112 (part), Vigo County (part), Terre Haute city, Indiana | Census Tract within County within Place | ? |
| <input type="checkbox"/> All Census Tracts (or parts) fully-or-partially within Terre Haute city, Indiana | Census Tract within County within Place | |
| <input type="checkbox"/> Census Tract 1, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 2, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 3, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 4, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 5, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 6, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 7, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 8, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 9, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 10, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 11, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 12, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 13, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 14, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 15, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 16 (part), Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input checked="" type="checkbox"/> Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input type="checkbox"/> Census Tract 18, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |
| <input checked="" type="checkbox"/> Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana | Census Tract within Place/Remainder | ? |

Step 6: Select the AC and add to “Your Selections”

- On the navigation bar on the left, choose *Topics*; select *Datasets* from inside the *Topics* box.

The screenshot shows the Factfinder search interface. On the left, there is a navigation bar with sections: 'Your Selections', 'Search using the options below:', 'Topics (age, income, year, dataset, ...)', 'Geographies (states, counties, places, ...)', 'Race and Ethnic Groups (race, ancestry, tribe)', and 'Industry Codes (NAICS industry, ...)'. The 'Topics' section is expanded, showing 'Dataset' selected. The main search area displays 'Search Results: 1-25 of 3,430 tables and other products match "Your Selections"'. A table of results is shown with columns: ID, Table, File or Document Title, Dataset, and About. A 'Select Topics' dialog box is open, titled 'Select Topics to add to "Your Selections"'. It contains a list of topics: People, Housing, Year, Product Type, Program, and Dataset. The 'Dataset' option is selected. Below the dialog box, the search results table is visible, showing various demographic data points for the year 2010 ACS 5-year estimates.

| ID | Table, File or Document Title | Dataset | About |
|---------|---|---------------------------|-------------------|
| B01001H | SEX BY AGE (WHITE ALONE, NOT HISPANIC OR LATINO) | 2010 ACS 5-year estimates | ? |
| B01001I | SEX BY AGE (HISPANIC OR LATINO) | 2010 ACS 5-year estimates | ? |
| B01002 | MEDIAN AGE BY SEX | 2010 ACS 5-year estimates | ? |
| B01002A | MEDIAN AGE BY SEX (WHITE ALONE) | 2010 ACS 5-year estimates | ? |
| B01002B | MEDIAN AGE BY SEX (BLACK OR AFRICAN AMERICAN ALONE) | 2010 ACS 5-year estimates | ? |
| B01002C | MEDIAN AGE BY SEX (AMERICAN INDIAN AND ALASKA NATIVE) | 2010 ACS 5-year estimates | ? |
| B01002D | MEDIAN AGE BY SEX (ASIAN ALONE) | 2010 ACS 5-year estimates | ? |
| B01002E | MEDIAN AGE BY SEX (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE) | 2010 ACS 5-year estimates | ? |
| B01002F | MEDIAN AGE BY SEX (SOME OTHER RACE ALONE) | 2010 ACS 5-year estimates | ? |
| B01002G | MEDIAN AGE BY SEX (TWO OR MORE RACES) | 2010 ACS 5-year estimates | ? |
| B01002H | MEDIAN AGE BY SEX (WHITE ALONE, NOT HISPANIC OR LATINO) | 2010 ACS 5-year estimates | ? |
| B01002I | MEDIAN AGE BY SEX (HISPANIC OR LATINO) | 2010 ACS 5-year estimates | ? |
| B01003 | TOTAL POPULATION | 2010 ACS 5-year estimates | ? |
| B02001 | RACE | 2010 ACS 5-year estimates | ? |
| B02005 | AMERICAN INDIAN AND ALASKA NATIVE ALONE FOR SELECTED TRIBAL GROUPINGS | 2010 ACS 5-year estimates | ? |

Step 7: Select the appropriate data set

- The search results for the Sample Data will then be generated. From the search results Select B03002 Hispanic or Latino Origin by Race from the table and B17001 Poverty Status in the Past 12 Months by Sex by Age. Once they have been selected click the view button at the bottom of the page.

U.S. Census Bureau AMERICAN FactFinder

MAIN SEARCH WHAT WE PROVIDE USING FACTFINDER Feedback FAQs Glossary Help

Search - Use the options on the left (topics, geographies, ...) to narrow your search results

Your Selections

Search using...

Dataset: 2010 ACS 5-year estimates

Place within State: Terre Haute city, Indiana

Census Tract within: Place/Remainder: Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana

Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana

Search using the options below:

Topics (age, income, year, dataset, ...)

Geographies (states, counties, places, ...)

Race and Ethnic Groups (race, ancestry, tribe)

Industry Codes (NAICS industry, ...)

Search Results: 26-50 of 790 tables and other products match 'Your Selections' per page: 25

1 Selected: [View](#) [Download](#) [Compare](#) [Clear All](#)

Search for: [GO](#)

| ID | Table, File or Document Title | Dataset | About |
|-------------------------------------|--|---------------------------|-------------------|
| <input type="checkbox"/> | B02006 ASIAN ALONE BY SELECTED GROUPS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02007 NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE BY SELECTED GROUPS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02008 WHITE ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02009 BLACK OR AFRICAN AMERICAN ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02010 AMERICAN INDIAN AND ALASKA NATIVE ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02011 ASIAN ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02012 NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B02013 SOME OTHER RACE ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B03001 HISPANIC OR LATINO ORIGIN BY SPECIFIC ORIGIN | 2010 ACS 5-year estimates | ? |
| <input checked="" type="checkbox"/> | B03002 HISPANIC OR LATINO ORIGIN BY RACE | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B03003 HISPANIC OR LATINO ORIGIN | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04001 FIRST ANCESTRY REPORTED | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04002 SECOND ANCESTRY REPORTED | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04003 TOTAL ANCESTRY REPORTED | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04004 PEOPLE REPORTING SINGLE ANCESTRY | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04005 PEOPLE REPORTING MULTIPLE ANCESTRY | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04006 PEOPLE REPORTING ANCESTRY | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B04007 ANCESTRY | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B05001 CITIZENSHIP STATUS IN THE UNITED STATES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B05002 PLACE OF BIRTH BY CITIZENSHIP STATUS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B05003 SEX BY AGE BY CITIZENSHIP STATUS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B05003A SEX BY AGE BY CITIZENSHIP STATUS (WHITE ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B05003B SEX BY AGE BY CITIZENSHIP STATUS (BLACK OR AFRICAN AMERICAN ALONE) | 2010 ACS 5-year estimates | ? |

Step 9: Select B03002, Hispanic or Latino origin by race

U.S. Census Bureau AMERICAN FactFinder

MAIN SEARCH WHAT WE PROVIDE USING FACTFINDER Feedback FAQs Glossary Help

Search - Use the options on the left (topics, geographies, ...) to narrow your search results

Your Selections

Search using...

Dataset: 2010 ACS 5-year estimates

Place within State: Terre Haute city, Indiana

Census Tract within: Place/Remainder: Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana

Search using the options below:

Topics (age, income, year, dataset, ...)

Geographies (states, counties, places, ...)

Race and Ethnic Groups (race, ancestry, tribe)

Industry Codes (NAICS industry, ...)

Search Results: 1-25 of 80 tables and other products match 'Your Selections' per page: 25

1 Selected: [View](#) [Download](#) [Compare](#) [Clear All](#)

Search for: [GO](#)

| ID | Table, File or Document Title | Dataset | About |
|-------------------------------------|---|---------------------------|-------------------|
| <input type="checkbox"/> | B06012 PLACE OF BIRTH BY POVERTY STATUS IN THE PAST 12 MONTHS IN THE UNITED STATES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B07012 GEOGRAPHICAL MOBILITY IN THE PAST YEAR BY POVERTY STATUS IN THE PAST 12 MONTHS FOR CURRENT RESIDENCE IN THE UNITED STATES | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B08122 MEANS OF TRANSPORTATION TO WORK BY POVERTY STATUS IN THE PAST 12 MONTHS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B10059 POVERTY STATUS IN THE PAST 12 MONTHS OF GRANDPARENTS LIVING WITH OWN GRANDCHILDREN UNDER 18 YEARS BY RESPONSIBILITY FOR OWN GRANDCHILDREN AND AGE OF GRANDPARENT | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B13010 WOMEN 15 TO 50 YEARS WHO HAD A BIRTH IN THE PAST 12 MONTHS BY MARITAL STATUS AND POVERTY STATUS IN THE PAST 12 MONTHS | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B14006 POVERTY STATUS IN THE PAST 12 MONTHS BY SCHOOL ENROLLMENT BY LEVEL OF SCHOOL FOR THE POPULATION 3 YEARS AND OVER | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B16009 POVERTY STATUS IN THE PAST 12 MONTHS BY AGE BY LANGUAGE SPOKEN AT HOME FOR THE POPULATION 5 YEARS AND OVER | 2010 ACS 5-year estimates | ? |
| <input checked="" type="checkbox"/> | B17001 POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001A POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001B POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (BLACK OR AFRICAN AMERICAN ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001C POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (AMERICAN INDIAN AND ALASKA NATIVE ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001D POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (ASIAN ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001E POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001F POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (SOME OTHER RACE ALONE) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001G POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (TWO OR MORE RACES) | 2010 ACS 5-year estimates | ? |
| <input type="checkbox"/> | B17001H POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE (WHITE ALONE, NOT HISPANIC OR LATINO) | 2010 ACS 5-year estimates | ? |

Step 9: Select B17001, Poverty Status in the past 12 months by sex by age

10. Both B03002 and B17001 data tables are then generated. Please note that the data is presented on two separate pages and will need to be downloaded separately.

U.S. Census Bureau AMERICAN FactFinder

MAIN SEARCH WHAT WE PROVIDE USING FACTFINDER Feedback FAQs Glossary Help

Results - Click Back to Search to select other tables or geographies

← BACK TO SEARCH Result 1 of 2 VIEW ALL AS PDF

B17001 POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE
 Universe: Population for whom poverty status is determined
 2006-2010 American Community Survey 5-Year Estimates

Table View Map View

Actions: [Modify Table](#) [Bookmark](#) [Print](#) [Download](#) [Create a Map](#)

[View Geography Notes](#) [View Table Notes](#)

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2010, the 2010 Census provides the official counts of the population and housing units for the nation, states, counties, cities and towns. For 2006 to 2009, the Population Estimates Program provides intercensal estimates of the population for the nation, states, and counties.

| | Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Terre Haute city, Indiana | |
|---|---|-----------------|---|-----------------|---------------------------|-----------------|
| | Estimate | Margin of Error | Estimate | Margin of Error | Estimate | Margin of Error |
| Total: | 4,380 | +/-479 | 1,702 | | 52,171 | +/-969 |
| Income in the past 12 months below poverty level: | 721 | +/-316 | 816 | | 13,687 | +/-886 |
| Male: | 300 | +/-190 | 309 | | 6,211 | +/-592 |
| Under 5 years | 28 | +/-30 | 112 | | 670 | +/-157 |
| 5 years | 0 | +/-119 | 0 | | 194 | +/-77 |
| 6 to 11 years | 88 | +/-146 | 11 | | 812 | +/-184 |
| 12 to 14 years | 0 | +/-119 | 41 | | 357 | +/-101 |
| 15 years | 0 | +/-119 | 17 | | 57 | +/-38 |
| 16 and 17 years | 0 | +/-119 | 24 | | 161 | +/-76 |
| 18 to 24 years | 54 | +/-54 | 36 | | 1,475 | +/-381 |
| 25 to 34 years | 64 | +/-75 | 42 | | 754 | +/-202 |
| 35 to 44 years | 0 | +/-119 | 0 | | 819 | +/-194 |
| 45 to 54 years | 14 | +/-23 | 7 | | 394 | +/-124 |
| 55 to 64 years | 52 | +/-50 | 19 | | 365 | +/-119 |
| 65 to 74 years | 0 | +/-119 | 0 | | 76 | +/-49 |
| 75 years and over | 0 | +/-119 | 0 | | 77 | +/-58 |

Step 10: The results appear on two separate pages

11. The B03002 table will require most of the data elements (Please note “Two or more races” data is needed, however the breakdown of the “Two or more races” is not). Click the download button. A spreadsheet can be generated in Microsoft Excel format by selecting the appropriate button.

The screenshot shows the American FactFinder interface for table B03002, titled "HISPANIC OR LATINO ORIGIN BY RACE". The universe is "Total population" and the data is from the "2006-2010 American Community Survey 5-Year Estimates". The interface includes navigation options like "Table View" and "Map View", and an "Actions" menu with buttons for "Modify Table", "Bookmark", "Print", "Download", and "Create a Map". A yellow arrow points to the "Download" button. Below the actions, there are links for "View Geography Notes" and "View Table Notes". A disclaimer note is present, and a data table is displayed at the bottom.

| | Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Terre Haute city, Indiana | |
|--|---|-----------------|---|-----------------|---------------------------|-----------------|
| | Estimate | Margin of Error | Estimate | Margin of Error | Estimate | Margin of Error |
| Total: | 4,405 | +/-484 | 1,702 | +/-190 | 60,440 | +/-45 |
| Not Hispanic or Latino: | 4,349 | +/-483 | 1,639 | +/-190 | 58,900 | +/-225 |
| White alone | 3,849 | +/-554 | 1,466 | +/-229 | 49,820 | +/-423 |
| Black or African American alone | 354 | +/-242 | 155 | +/-101 | 6,453 | +/-423 |
| American Indian and Alaska Native alone | 0 | +/-119 | 0 | +/-119 | 184 | +/-59 |
| Asian alone | 70 | +/-71 | 0 | +/-119 | 806 | +/-254 |
| Native Hawaiian and Other Pacific Islander alone | 0 | +/-119 | 0 | +/-119 | 34 | +/-31 |
| Some other race alone | 0 | +/-119 | 0 | +/-119 | 52 | +/-39 |
| Two or more races: | 76 | +/-80 | 18 | +/-32 | 1,551 | +/-361 |
| Two races including Some other race | 0 | +/-119 | 0 | +/-119 | 77 | +/-53 |
| Two races excluding Some other race, and three or more races | 76 | +/-80 | 18 | +/-32 | 1,474 | +/-348 |
| Hispanic or Latino: | 56 | +/-88 | 63 | +/-73 | 1,540 | +/-226 |
| White alone | 12 | +/-20 | 63 | +/-73 | 821 | +/-202 |
| Black or African American alone | 0 | +/-119 | 0 | +/-119 | 32 | +/-42 |
| American Indian and Alaska Native alone | 0 | +/-119 | 0 | +/-119 | 50 | +/-44 |

Step 11: B03002 results

12. For B17001 table will need to be modified. The “Total” and “Income in the past 12 months below poverty level” are the only two values needed. Click the download button. A spreadsheet can be generated in Microsoft Excel format by selecting the appropriate button.

The screenshot shows the U.S. Census Bureau FactFinder interface. At the top, there are navigation links: MAIN, SEARCH, WHAT WE PROVIDE, USING FACTFINDER, Feedback, FAQs, Glossary, and Help. Below this is a header for 'Results - Click Back to Search to select other tables or geographies'. A 'BACK TO SEARCH' button is on the left, and 'Result 1 of 2' and 'VIEW ALL AS PDF' are on the right. The main content area displays the table ID 'B17001' and the title 'POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE'. Below the title, it says 'Universe: Population for whom poverty status is determined' and '2006-2010 American Community Survey 5-Year Estimates'. There are two view options: 'Table View' (selected) and 'Map View'. Below these are 'Actions' including 'Modify Table', 'Bookmark', 'Print', 'Download' (highlighted with a yellow arrow), and 'Create a Map'. There are also links for 'View Geography Notes' and 'View Table Notes'. A small text block explains that the American Community Survey (ACS) produces population, demographic and housing unit estimates, and that for 2010, the 2010 Census provides the official counts of the population and housing units for the nation, states, counties, cities and towns. For 2006 to 2009, the Population Estimates Program provides intercensal estimates of the population for the nation, states, and counties.

| | Census Tract 17, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Census Tract 19, Terre Haute city (part), Harrison township, Vigo County, Indiana | | Terre Haute city, Indiana | |
|---|---|-----------------|---|-----------------|---------------------------|-----------------|
| | Estimate | Margin of Error | Estimate | Margin of Error | Estimate | Margin of Error |
| Total: | 4,380 | +/-479 | 1,702 | +/-190 | 52,171 | +/-969 |
| Income in the past 12 months below poverty level: | 721 | +/-316 | 816 | +/-210 | 13,687 | +/-886 |
| Male: | 300 | +/-190 | 309 | +/-116 | 6,211 | +/-592 |
| Under 5 years | 26 | +/-30 | 112 | +/-59 | 670 | +/-157 |
| 5 years | 0 | +/-119 | 0 | +/-119 | 194 | +/-77 |
| 6 to 11 years | 88 | +/-146 | 11 | +/-16 | 812 | +/-184 |
| 12 to 14 years | 0 | +/-119 | 41 | +/-50 | 357 | +/-101 |
| 15 years | 0 | +/-119 | 17 | +/-19 | 57 | +/-38 |
| 16 and 17 years | 0 | +/-119 | 24 | +/-30 | 161 | +/-76 |
| 18 to 24 years | 54 | +/-54 | 36 | +/-41 | 1,475 | +/-381 |
| 25 to 34 years | 64 | +/-75 | 42 | +/-31 | 754 | +/-202 |
| 35 to 44 years | 0 | +/-119 | 0 | +/-119 | 819 | +/-194 |
| 45 to 54 years | 14 | +/-23 | 7 | +/-13 | 394 | +/-124 |
| 55 to 64 years | 52 | +/-50 | 19 | +/-28 | 365 | +/-119 |
| 65 to 74 years | 0 | +/-119 | 0 | +/-119 | 76 | +/-49 |
| 75 years and over | 0 | +/-119 | 0 | +/-119 | 77 | +/-58 |

Step 12: B17001 results

13. The pages can be printed for reference and included in the EJ Analysis.

| A1 | | B17001: POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE - Universe: Population for whom poverty status is determined | | | | | | | | | | | | | | | |
|----|--|---|--------|-------|--------|--------|--------|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
| 1 | B17001: POVERTY STATUS IN THE | | | | | | | | | | | | | | | | |
| 2 | 2006-2010 American Community Survey | | | | | | | | | | | | | | | | |
| 3 | Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section. | | | | | | | | | | | | | | | | |
| 4 | Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section. | | | | | | | | | | | | | | | | |
| 5 | Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, for 2010, the 2010 Census provides the official counts of the population and housing units for the nation, states, counties, cities and towns. For 2006 to 2009, the Population Estimates Program provides intercensal estimates of the population for the nation, states, and counties. | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | Total: | 4,380 | +/-479 | 4,702 | +/-190 | 52,171 | +/-969 | | | | | | | | | | |
| 11 | Income in the past 12 months below | 721 | +/-316 | 816 | +/-210 | 13,687 | +/-886 | | | | | | | | | | |
| 12 | Male: | 300 | +/-190 | 309 | +/-116 | 6,211 | +/-592 | | | | | | | | | | |
| 13 | Under 5 years | 28 | +/-30 | 112 | +/-59 | 670 | +/-157 | | | | | | | | | | |
| 14 | 5 years | 0 | +/-119 | 0 | +/-119 | 194 | +/-77 | | | | | | | | | | |
| 15 | 6 to 11 years | 88 | +/-146 | 11 | +/-16 | 812 | +/-184 | | | | | | | | | | |
| 16 | 12 to 14 years | 0 | +/-119 | 41 | +/-60 | 367 | +/-101 | | | | | | | | | | |
| 17 | 15 years | 0 | +/-119 | 17 | +/-19 | 67 | +/-38 | | | | | | | | | | |
| 18 | 16 and 17 years | 0 | +/-119 | 24 | +/-30 | 161 | +/-76 | | | | | | | | | | |
| 19 | 18 to 24 years | 64 | +/-54 | 96 | +/-41 | 1,475 | +/-381 | | | | | | | | | | |
| 20 | 25 to 34 years | 64 | +/-75 | 42 | +/-31 | 754 | +/-202 | | | | | | | | | | |
| 21 | 35 to 44 years | 0 | +/-119 | 0 | +/-119 | 819 | +/-194 | | | | | | | | | | |
| 22 | 45 to 54 years | 14 | +/-23 | 7 | +/-13 | 394 | +/-124 | | | | | | | | | | |
| 23 | 55 to 64 years | 62 | +/-50 | 19 | +/-28 | 365 | +/-119 | | | | | | | | | | |
| 24 | 65 to 74 years | 0 | +/-119 | 0 | +/-119 | 76 | +/-49 | | | | | | | | | | |
| 25 | 75 years and over | 0 | +/-119 | 0 | +/-119 | 77 | +/-58 | | | | | | | | | | |
| 26 | Female: | 421 | +/-191 | 507 | +/-137 | 7,476 | +/-512 | | | | | | | | | | |

Step 13: Results can be exported into excel as illustrated above

Calculations for Demographic Analysis

The Excel files can be used to analyze the Census data.

1. Load the Census data into Excel. Excel has formula options and can be used to conduct the necessary calculations. (See below)

| | A | B | C | D | E | F | G | H |
|----|-----------|--|------------------------------|--|--|---|---|---|
| 1 | | Figure 1: Analysis of Two Census Tracts in Terre Haute, Vigo County, Indiana | | | | | | |
| 2 | | | | | | | | |
| 3 | | | COC | AC1 | AC2 | | | |
| 4 | | | | | | | | |
| 5 | | | Terre Haute city, Indiana | Census Tract 17, Vigo County, Indiana | Census Tract 19, Vigo County, Indiana | | | |
| 6 | | | | | | | | |
| 7 | | LOW-INCOME | | | | | | |
| 8 | B17001001 | Population for whom poverty status is determined: Total | 52,171 | 4,380 | 1,702 | | | |
| 9 | B17001002 | Population for whom poverty status is determined: Income in past 12 months below poverty level | 13,887 | 721 | 816 | | | |
| 10 | | | | | | | | |
| 11 | | Percent Low-income | 26.2% | 16.5% | 47.9% | | | |
| 12 | | 125 Percent of COC | 32.8% | AC <125% COC | AC <125% COC | | | |
| 13 | | Potential Low-income EJ Impact? | | No | Yes | | | |
| 14 | | | | | | | | |
| 15 | | MINORITY | | | | | | |
| 16 | B03002001 | Total population: Total | 60,440 | 4,405 | 1,702 | | | |
| 17 | B03002002 | Total population: Not Hispanic or Latino | 58,900 | 4,349 | 1,639 | | | |
| 18 | B03002003 | Total population: Not Hispanic or Latino; White alone | 49,820 | 3,849 | 1,466 | | | |
| 19 | B03002004 | Total population: Not Hispanic or Latino; Black or African American alone | 6,453 | 354 | 155 | | | |
| 20 | B03002005 | Total population: Not Hispanic or Latino; American Indian and Alaska Native alone | 184 | 0 | 0 | | | |
| 21 | B03002006 | Total population: Not Hispanic or Latino; Asian alone | 806 | 70 | 0 | | | |
| 22 | B03002007 | Total population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone | 34 | 0 | 0 | | | |
| 23 | B03002008 | Total population: Not Hispanic or Latino; Some other race alone | 52 | 0 | 0 | | | |
| 24 | B03002009 | Total population: Not Hispanic or Latino; Two or more races | 1,551 | 76 | 18 | | | |
| 25 | B03002010 | Total population: Hispanic or Latino | 1,540 | 56 | 63 | | | |
| 26 | B03002011 | Total population: Hispanic or Latino; White alone | 821 | 12 | 63 | | | |
| 27 | B03002012 | Total population: Hispanic or Latino; Black or African American alone | 32 | 0 | 0 | | | |
| 28 | B03002013 | Total population: Hispanic or Latino; American Indian and Alaska Native alone | 50 | 0 | 0 | | | |
| 29 | B03002014 | Total population: Hispanic or Latino; Asian alone | 11 | 0 | 0 | | | |
| 30 | B03002015 | Total population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone | 0 | 0 | 0 | | | |
| 31 | B03002016 | Total population: Hispanic or Latino; Some other race alone | 491 | 0 | 0 | | | |
| 32 | B03002017 | Total population: Hispanic or Latino; Two or more races | 135 | 44 | 0 | | | |
| 33 | | | | | | | | |
| 34 | | Number Non-white/minority (P007001-P007003) | 10,620 | 556 | 236 | | | |
| 35 | | Percent Non-white/Minority | 17.6% | 12.6% | 13.9% | | | |
| 36 | | 125 Percent of COC | 22.0% | AC <125% COC | AC <125% COC | | | |
| 37 | | Potential Minority EJ Impact? | | No | No | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |

2. Add together any tracts or block groups as necessary to create the AC. Label the COC and the AC.
3. Calculate percentages: Create rows or columns to perform the following calculations:
 - a. Percent Minority: Use Hispanic or Latino Origin by Race (B03002); calculate non-white as proxy for minority.
$$\text{Percent Minority} = (\text{Total population} - \text{Not Hispanic or Latino: White alone}) / \text{Total population}$$
 - b. Percent Low Income: Use number associated with “Income in the past 12 months below poverty level” (B17001)
$$\text{Percent Low Income} = (\text{Income in the past 12 months below poverty level} / \text{Total population})$$
4. Calculate 125 percent of COC for minority and low-income to set the threshold of an EJ population. Record this value in the table and perform the comparison.

Interpreting the Demographic Analysis

Determine whether the percent of the population that is minority or low-income is elevated in the affected communities. Elevated means that the concentration of these individuals in the AC is greater than 50% or if the AC is 25 percent higher than the COC.

If you find that you have an EJ population that is 50% or more in the AC, you must count it as an elevated population regardless of the percentage above or below the COC.

If you find no indications of EJ populations, you can stop the analysis and describe what you did in the remarks section.

If you do find one or more EJ populations, you will need to determine whether or not the adverse impacts disproportionately impact the EJ population relative to the non-EJ populations.

References and Notes for EJ in the NEPA process

1. USAF. 1997. Guide for Environmental Justice Analysis with Environmental Impact Analysis Process (<http://www.afcee.af.mil/shared/media/document/AFD-070830-060.pdf>)
 - Identification sequence: identify impacts, determine if adverse, identify population
 - Population analysis:
 - a. identify community of comparison (COC) as the smallest governmental or geopolitical unit that encompasses the impact footprint of each resource,
 - b. identify census tracts that lie within or partially within the impact footprint
 - c. compare the percent M and LI between the affected census tracts and the COC
 - d. ≥ 50 percent minority is automatic EJ impact
 - e. Census tracts ≤ 50 percent and $< \text{COC}$ is interpreted as no EJ concern.
 - f. Census tracts $> \text{COC}$ is interpreted as an EJ impact.
 - g. E and f are subject to ground-truthing to resolve ambiguity in special distribution of populations of interest within the census tracts.
2. CEQ. 1997. Environmental Justice: Guidance under the National Environmental Policy Act (<http://ceq.hss.doe.gov/nepa/regs/ej/justice.pdf>)
 - Demographic analysis may not be warranted if an agency action will not cause adverse environmental impacts.
 - A minority population exists if greater than 50 percent of affected population or if the percent minority is “meaningfully greater” than the general population.
 - Consider the relative risk, significance, and cumulativeness of environmental and human health impacts.
3. ODOT. 2002. Guidance and Best Practices for Incorporating Environmental Justice into Ohio Transportation Planning and Environmental Processes. (http://www.dot.state.oh.us/Divisions/TransSysDev/Environment/NEPA_policy_issues/ENVIRONMENTAL_JUSTICE/Documents/EJ_Book_Complete.pdf)
 - Identification sequence: identify populations, apply disproportionate test.
 - EJ issue exists if percent LI or percent M is 25 percent higher in the affected area than in the reference population.
 - Includes analysis questions for specific impacts:
 - Bodily impairment, infirmity, illness, or death
 - Air, noise, and water pollution and soil contamination
 - Destruction or disruption of man-made or natural resources
 - Destruction or diminution of aesthetic values
 - Destruction or disruption of a community’s economic vitality or community cohesion
 - Destruction or disruption of the availability of public or private facilities and services
 - Vibration
 - Adverse employment effects
 - Displacement of persons, businesses, farms, or nonprofit organizations
 - Increased traffic congestion and Isolation
 - Exclusion or separation of minority or low-income individuals within a given community or from the broader community
 - The denial or, reduction in, or significant delay in the receipt of, benefits
4. US Census Bureau. 2010. A Compass for Understanding and Using American Community Survey Data <http://www.census.gov/acs/www/Downloads/handbooks/ACSGeneralHandbook.pdf>