

Minnesota Population Center
Training and Development



Creating a Microdata Extract

Exercise

Objective: Use the IPUMS Terra website to obtain a customized dataset that can be used to answer research questions. This exercise will use microdata and aggregate data for the United States spanning two decades to explore trends in education and employment.

IPUMS Terra: Microdata Extract Overview

RESEARCH QUESTION

Examine the interoperable (microdata and area-level) datasets for United States over three decennial censuses. What trends exist over time in education and unemployment?

OBJECTIVES

- Create a IPUMS Terra account
- Create and download a IPUMS Terra microdata extract
- Use IPUMS Terra to attach area-level data to microdata records

IPUMS TERRA VARIABLES

Microdata variables

| | |
|------------|---|
| * COUNTRY: | Country |
| EDUCUS: | Educational attainment, United States |
| EMPSTAT: | Activity status (employment status) |
| GEOLEV2: | 2nd subnational geographic level, world |
| HHWT: | Household weight |
| * PERNUM: | Person number |
| PERSONS: | Number of person records in household |
| * PERWT: | Person weight |
| * SAMPLE: | IPUMS sample identifier |
| SCHOOL: | School attendance |
| * SERIAL: | Household serial number |
| * YEAR: | Year |

* Denotes preselected variables

Area-level variables

| | |
|-----------|--|
| UNEMP: | Percent of population unemployed in each census area |
| PROF: | Percent of population in professional or technical occupation |
| EDATTAIN: | Percent of population with a specific educational attainment in each census area |

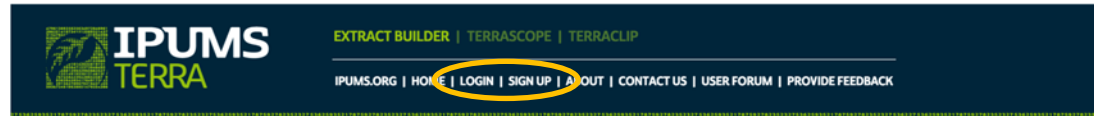
Step 1

Sign up

REGISTERING WITH IPUMS TERRA

IPUMS uses a **common user management system** covering all IPUMS products: IPUMS Terra, IPUMS International, IPUMS USA, IPUMS CPS, IPUMS Higher Ed, IPUMS NAPP, IPUMS NHGIS, IPUMS Health Surveys, and IPUMS Time Use. If you have an existing account with any of these systems, you will use the same account for IPUMS Terra

- Go to <https://data.terrapop.org/>
- If you have an existing IPUMS account, click **Login**. After logging in, you will be directed to the registration page for IPUMS Terra.
- If you do not have an IPUMS account, click on **Sign up** to register for access.



What is IPUMS Terra?

IPUMS Terra integrates the world's population and environmental data including...

- Population censuses and surveys
- Land cover data classified from satellite imagery
- Temperature, precipitation, and related climate data
- Land use data derived from censuses and surveys in combination with remotely sensed data

Available Datasets

- Microdata Datasets
- Area-level Datasets
- Raster Datasets

Tutorials

- Microdata Output
- Area-level Output



Microdata Output

characteristics of individual people with attached contextual variables derived from area-level and/or raster data

[Read more](#)

[Start Extract](#)

Area-level Output

characteristics of geographic units including aggregate population data and/or summaries from raster data

[Read more](#)

[Continue Extract](#)

Raster Data Output

data in spatial grids potentially derived from area-level data

[Read more](#)

[Start Extract](#)

- Fill out the online form and check the license boxes

Note: All registered IPUMS Terra users have access to U.S. microdata, since IPUMS Terra provides the public version of the microdata made available by the U.S. Census Bureau. To access microdata for other countries, you must submit an application to IPUMS International. You can do so by clicking the box next to "Check here if you would like access to Microdata" on the IPUMS Terra registration form, and filling out the additional fields that appear. Approval by IPUMS International may take one or two days. If you already have an IPUMS International account, your IPUMS Terra account will automatically be linked to it, and you will be able to access international microdata through IPUMS Terra. For more help see page 16.

Check here if you would like access to Microdata ☒

APPLICATION TO USE RESTRICTED MICRODATA

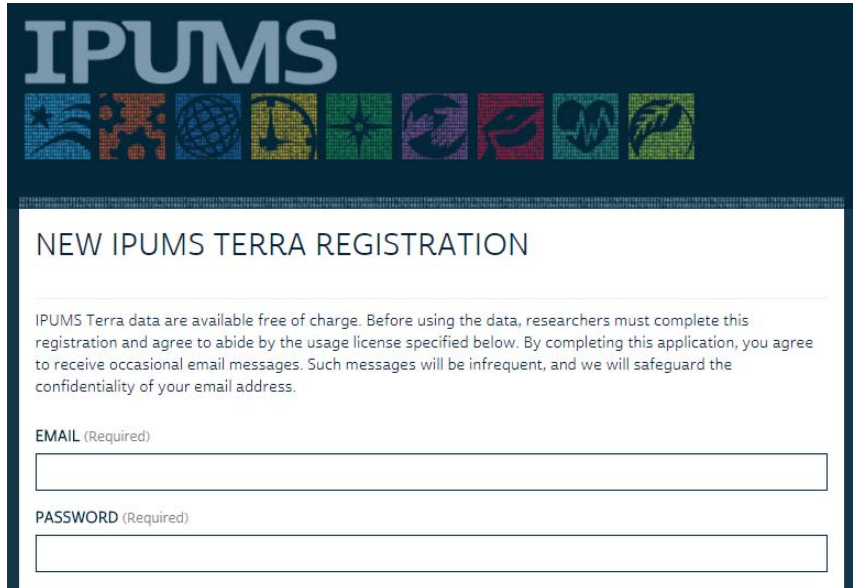
IPUMS Terra makes IPUMS-International microdata available free of charge, but their use imposes responsibilities upon the user. To access the data, a prospective user must submit an electronic authorization form (this form) identifying the user by name, electronic address, and institutional affiliation. The investigator must state the purpose of the proposed project and agree to abide by the regulations specified below. If multiple investigators are involved in a project, all must register separately.

Step 2

Registration
with IPUMS
International

Step 3

Email
confirmation
and log in

The image shows the IPUMS Terra registration page. At the top is the IPUMS logo and a row of nine small icons representing different data themes. Below this is a white box with the title "NEW IPUMS TERRA REGISTRATION". Inside the box, there is a paragraph of text explaining that the data is free but requires registration and agreement to a usage license. Below the text are two input fields: "EMAIL (Required)" and "PASSWORD (Required)".

IPUMS

NEW IPUMS TERRA REGISTRATION

IPUMS Terra data are available free of charge. Before using the data, researchers must complete this registration and agree to abide by the usage license specified below. By completing this application, you agree to receive occasional email messages. Such messages will be infrequent, and we will safeguard the confidentiality of your email address.

EMAIL (Required)

PASSWORD (Required)

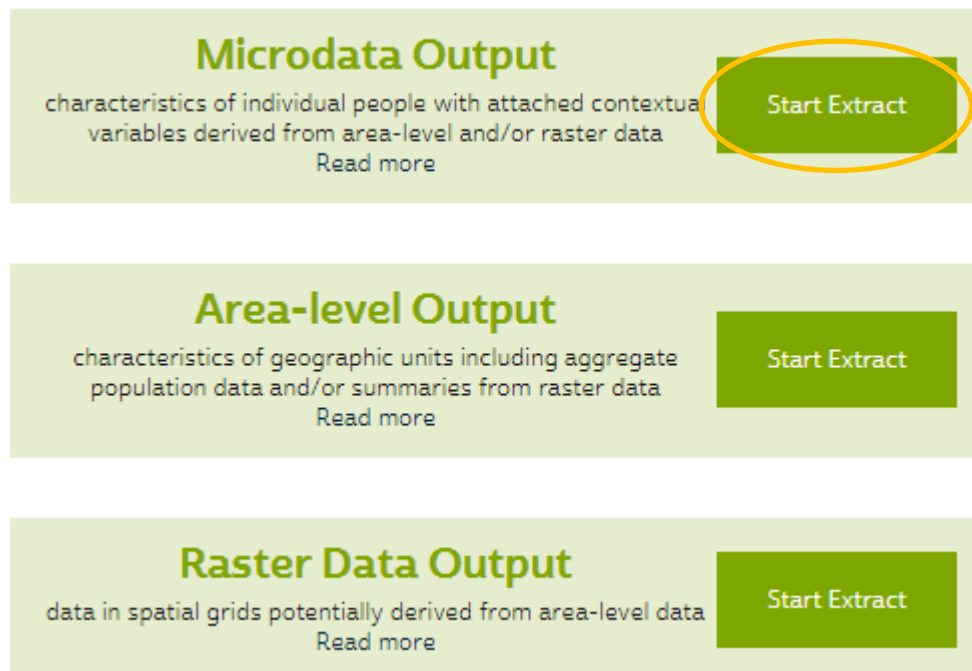
After you have registered with IPUMS Terra, an e-mail will be sent to your account notifying you of approval.

Note: Please be sure to check your trash/spam folders

- Open the e-mail and click on the confirmation link. You will then be logged into IPUMS Terra

The extract builder website guides researchers through the workflows for building data extracts. Choose the type of data structure you would like to receive as output for further analysis. In this tutorial, we will be creating a microdata extract with attached area-level variables.

- Click on the “**Start Extract**” button for Microdata Output

The image shows the Extract Builder selection screen. It has a light green background and three main sections. The first section is "Microdata Output" with a description: "characteristics of individual people with attached contextual variables derived from area-level and/or raster data". It has a "Read more" link and a green "Start Extract" button circled in orange. The second section is "Area-level Output" with a description: "characteristics of geographic units including aggregate population data and/or summaries from raster data". It has a "Read more" link and a green "Start Extract" button. The third section is "Raster Data Output" with a description: "data in spatial grids potentially derived from area-level data". It has a "Read more" link and a green "Start Extract" button.

Microdata Output

characteristics of individual people with attached contextual variables derived from area-level and/or raster data

[Read more](#)

Start Extract

Area-level Output

characteristics of geographic units including aggregate population data and/or summaries from raster data

[Read more](#)

Start Extract

Raster Data Output

data in spatial grids potentially derived from area-level data

[Read more](#)

Start Extract

Step 5

Examine the
IPUMS Terra
interface

The IPUMS Terra interface for the first step of the workflow consists of the following elements:

Navigation Bar: Shows the major steps in the workflow, the sub-steps of the current step, and your progress through the workflow. The navigation bar steps will reflect the workflow you select. The step and sub-step you are currently on are highlighted in green.

Data Cart: Provides a summary of the data you have selected to include in your extract. The data cart is updated as you make selections throughout the workflow.

Availability Grid: Shows the availability of variables by dataset and enables selection of variables and datasets.

Variables Panel: Lists topics for which microdata variables are available. Clicking on a topic will populate the rows of the availability grid with the variables in that topic.

Datasets Panel: Lists countries in the IPUMS Terra system, and provides options to filter by time and hide countries without microdata. Clicking on a continent will list the countries in the continent. Clicking on a country will populate the columns of the availability grid with the datasets available for that country. You may add all countries in a continent to the grid by clicking the “Browse All” line.

The screenshot displays the IPUMS Terra Extract Builder interface. The top navigation bar includes the IPUMS Terra logo, links for EXTRACT BUILDER, TERRASCOPE, and TERRACLIP, and user account options. The main workflow steps are: 1. Select Microdata (highlighted in green), 2. Attach Area-Level Data, 3. Attach Raster Data, and 4. Submit. A 'NEXT' button is visible.

On the left, the 'Browse Variables' panel shows a list of variables under 'Household' and 'Person' categories. The 'Select Microdata' panel includes options to 'Show only selected variables', 'Show only selected datasets', and 'Display unavailable variables'. The 'Availability Grid' is a central table with 'Variables' on the left and 'Datasets' on the right, both currently showing 'Browsing None'.

On the right, the 'Data Cart' panel shows a 'Microdata Extract' with a 'Cancel' button and a list of selected items: 1. Select Microdata, 2. Attach Area-level Data, and 3. Attach Raster Data. Below it, the 'Browse Datasets' panel shows a list of countries under 'Browsing Options'.

Annotations with yellow boxes highlight the 'Navigation Bar', 'Data Cart', 'Variables' panel, 'Availability Grid', and 'Datasets' panel.

FUNDING PROVIDED BY: NATIONAL SCIENCE FOUNDATION
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Source Code: Finger Print: 3017206 / Build: 74-2009-01017206

Step 6

Browse
datasets for
the United
States

IPUMS TERRA

EXTRACT BUILDER | TERRASCOPE | TERRACLIP

IPUMS.ORG | HOME | LOGOUT | ACCOUNT | ADMIN | ABOUT | CONTACT US | USER FORUM | PROVIDE FEEDBACK

Change Output Type 1 Select Microdata 2 Attach Area-Level Data 3 Attach Raster Data 4 Submit NEXT

Browse Variables

Household 5 Person 3

Technical Household 5

Group Quarters

Geography: Global

Geography: A-E

Geography: F-N

Geography: O-Z

Geography: IPUMS-L IPUMS-DHS

Select Microdata

Select Data [What is this?](#)

☐ Show only selected variables ⓘ

☐ Show only selected datasets ⓘ

☒ Display unavailable variables ⓘ

Variables

Browsing None

Datasets

Browsing None

Browse Datasets

Countries

Browsing Options ▶

Africa

Asia

Europe

North America

Oceania

South America

- Click on **North America** in the Browse Datasets panel.

The listing 'United States (7)' indicates that 7 years of data are available for the US.

Browse Datasets

Countries

Browsing Options ▶

(N/A)

Saint Vincent and the Grenadines (N/A)

Sint Maarten (N/A)

Trinidad and Tobago (5)

Turks and Caicos Islands (N/A)

United States (7)

- Click on **United States**.

The available datasets for United States appear as columns in the availability grid.

- Check the boxes to select years: **2000, 2010**.

Select Microdata

Select Data [What is this?](#)

☐ Show only selected variables ⓘ

☐ Show only selected datasets ⓘ

Variables

☒ Display unavailable variables ⓘ

Browsing None

Datasets

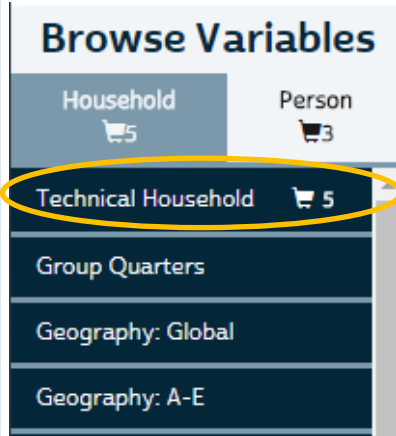
| United States | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2010 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Step 7

Select
datasets

Step 8

Select
microdata
variables



To see available variables, choose a topic in the Browse Variables panel. Topics are organized into two categories, Household and Person, accessible via the tabs in the Browse Variables panel.

- Under the Household tab, choose the variable topic **Technical Household**.

The availability grid will be updated with available technical household variables.

Step 9

Select
household
variables

Five of the technical household variables are preselected, as indicated by the cart icon on the topic name and shown in the availability grid. These variables are usually important for analysis and are preselected for convenience. These variables can be removed if you deem they are unnecessary.

- Remove the variable **FORMTYPE** since it is not available for our selected datasets.

Select Microdata

Select Data [What is this?](#)

- ☐ Show only selected variables ⓘ
☐ Show only selected datasets ⓘ

Technical Household Variables

☒ Display unavailable variables ⓘ

Datasets

| | | United States | | | | | | |
|---|---|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2010 |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> RECTYPE | Record type | • | • | • | • | • | • | • |
| <input checked="" type="checkbox"/> COUNTRY Preselected | Country | • | • | • | • | ✓ | • | ✓ |
| <input checked="" type="checkbox"/> YEAR Preselected | Year | • | • | • | • | ✓ | • | ✓ |
| <input checked="" type="checkbox"/> SAMPLE Preselected | IPUMS sample identifier | • | • | • | • | ✓ | • | ✓ |
| <input checked="" type="checkbox"/> SERIAL Preselected | Household serial number | • | • | • | • | ✓ | • | ✓ |
| <input type="checkbox"/> PERSONS | Number of person records in the household | • | • | • | • | • | • | • |
| <input type="checkbox"/> HHWT | Household weight | • | • | • | • | • | • | • |
| <input type="checkbox"/> SUBSAMP | Subsample number | • | • | • | • | • | • | • |
| <input type="checkbox"/> HHDONATE | Donated household | | | | | | | |
| <input checked="" type="checkbox"/> FORMTYPE Preselected | Questionnaire type received by household | | | | | | | |
| <input type="checkbox"/> STRATA | Strata identifier | | | | | • | | |

- Choose additional variables from the Technical Household topic:
- PERSONS**
- HHWT**

These variables are available for United states for the years 2000 and 2010.

The variables will be added to your Data Cart.

Step 10

Select household variables

- Select the Household topic **Geography Global**
You can simplify the availability grid to show only the variables available in the datasets you are browsing.
- Uncheck "**Display unavailable variables**"
- Select **GEOLEV2**

Select Microdata

Select Data [What is this?](#)

☐ Show only selected variables ⓘ

☐ Show only selected datasets ⓘ

Geography: Global Variables


☐ Display unavailable variables ⓘ


| | | Datasets | | | | | | |
|---|---|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | | United States | | | | | | |
| | | 1960 | 1970 | 1980 | 1990 | 2000 | 2005 | 2010 |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> URBAN | Urban-rural status | • | | | • | | | |
| <input type="checkbox"/> REGIONW | Continent and region of country | • | • | • | • | • | • | • |
| <input type="checkbox"/> GEOLEV1 | 1st subnational geographic level, world [consistent boundaries over time] | • | • | • | • | • | • | • |
| <input checked="" type="checkbox"/> GEOLEV2 | 2nd subnational geographic level, world [consistent boundaries over time] | | | • | • | <input checked="" type="checkbox"/> | • | <input checked="" type="checkbox"/> |


Step 11

Select person variables

Browse Variables

Household  6

Person  3

Technical Person  3

Constructed Family Interrelationship

Demographic

Fertility and Mortality

- Under the Person tab, select the variable topic **Technical Person**.

Three variables in this category are preselected.

- Unselect the variable **RESIDENT** as the data is unavailable (no green dots) for selected datasets. (You may need to check "Display unavailable variables")

Continue adding variables to your extract by selecting the following Person variables:

- Education → **EDUCUS**
- Education → **SCHOOL**
- Work → **EMPSTAT**

Step 12

Attach
area-level
data

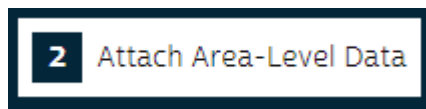
When you have selected both datasets and variables, the **NEXT** button will become active and turn green, allowing you to move on to the next step.

The navigation bar indicates that the next step will be to Attach Area-Level Data.

- Click **NEXT** to move to the Area-Level data screen.

Note: Attaching area-level data will add contextual variables to your microdata records. The contextual variables contain information about the geographic unit in which the individual lives.

NEXT



Step 13

Select
area-level
variables

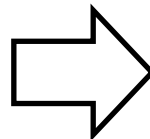
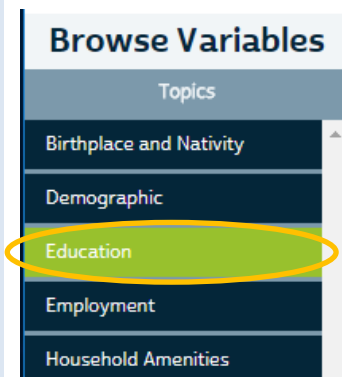
The datasets for which you selected microdata are pre-selected for area-level data.

- In the Browse Variables panel, click on “**Education**.” The availability grid will be updated with available education variables.

Note: Area-level variables are organized in variable groups, which are similar to the columns in aggregate data tables. To see the individual variables within a group and access their metadata, use the arrow to expand the group.

- Choose the variable group **EDATTAIN**, by checking the multi-select box. EDATTAIN is available for both selected datasets.

Note: All four variables within the EDATTAIN group will be added to your Data Cart.



Attach Area-level Data

Select Data [What is this?](#)

- ☐ Show only selected variables ⓘ
☒ Show only selected datasets ⓘ

Datasets

[United States](#)

2000 2010

☒ ☒

Education Variables

| | | | | | |
|-------------------------------------|-------------------------------------|-------------------|--|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | SCHOOLAGE (3) | School attendance by age | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | LITAGE (2) | Literacy by age | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | EDATTAIN (4 of 4) | Educational attainment | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | EDUCLESSPRIM | Percent of persons age 25+ with less than primary education | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | EDUCPRIMARY | Percent of persons age 25+ who completed primary education | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | EDUCSECOND | Percent of persons age 25+ who completed secondary education | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | EDUCTERTIARY | Percent of persons age 25+ who completed tertiary education | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> | EDYEARS (1) | Years of schooling | <input type="checkbox"/> | <input type="checkbox"/> |

Step 13

Select area-level variables

Select the following variables from the topic *Employment*

- **UNEMP**
- **PROF**

Browse Variables

Topics

- Birthplace and Nativity
- Demographic
- Education 4
- Employment 2**
- Household Amenities
- Household: Dwelling Characteristics
- Household Economic
- Household Utilities
- Urban

Attach Area-level Data

Select Data [What is this?](#)

☐ Show only selected variables ⓘ
☒ Show only selected datasets ⓘ

Employment Variables

| | | | | |
|-------------------------------------|----------------|---------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> | LABFORCE (3) | Labor force by sex | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | LFRATE (3) | Labor force participation rate by sex | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | CHILDEMP (1) | Employment rate of children | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | UNEMP (1 of 1) | Unemployment rate | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | PROF (1 of 1) | Workers in professional occupations | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | AGRIC (1) | Workers in agriculture | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | MANUF (1) | Workers in manufacturing | <input type="checkbox"/> | <input type="checkbox"/> |

Datasets

[United States](#)

| 2000 | 2010 |
|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

- Click **NEXT** to move to geographic selection



Step 14

Select a harmonized geographic level

Our research question involves examining how education and employment have changed between 2000 and 2010. In order to study change over time, it is important to use geographic units with boundaries that are consistent over the time frame under study. In IPUMS Terra, such units are referred to as harmonized. If harmonized units are not used, apparent changes may be due to changing boundaries rather than actual changes in population characteristics.

Time Frame ⓘ

☒ Harmonized (Consistent)
☐ Year-specific

☐ Show number of units ⓘ

Administrative Level ⓘ

☒ Lowest Level Available
☐ 1st Administrative Level
☐ National

| Country | Selected Microdata | Attached Area-level Data | Harmonized (Consistent) | Lowest Level Available |
|---------------|--------------------|--------------------------|-------------------------|----------------------------------|
| United States | 2000 | 2000 | 1980 - 2010 | Consistent PUMAs |
| | | 2010 | | |
| | 2010 | 2000 | | |
| | | 2010 | | |

- Leave **Harmonized (consistent)** selected
- Click **NEXT**

Step 15

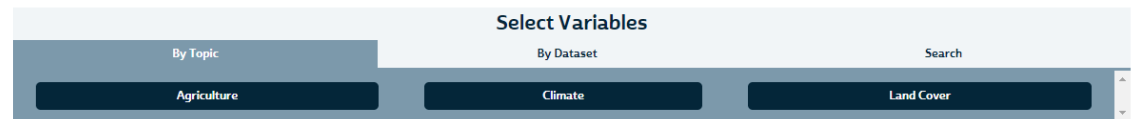
Skip
attaching
raster data

You have the option of selecting raster data to create additional contextual variables. The raster grid cells in each geographic unit are summarized to produce a value for the geographic unit, which is then attached to microdata records for the individuals in the unit.



Attach Raster Data

Select Data [What is this?](#)



This exercise does not involve raster data so we can just skip this step.

- Click **SKIP** to go to the Submit step

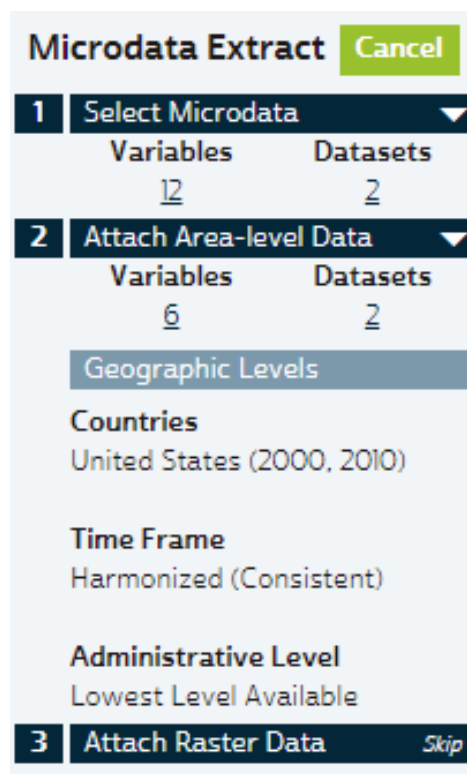


Step 15

Check data
Cart

Before submitting your extract request, you should check your data cart. Two sections of the cart should be populated.

- Microdata should have 12 variables, 2 datasets
- Area-level type should have 6 variables, 2 datasets.



Step 15

Check data
cart

You can click the number of variables or datasets for each data type to see detailed lists of your selections.

Microdata Extract

Cancel

1

Select Microdata

Variables

12

Datasets

2

2

Attach Area-level Data

Variables

6

Datasets

2

Geographic Levels

Countries

United States (2000, 2010)

Time Frame

Harmonized (Consistent)

Administrative Level

Lowest Level Available

3

Attach Raster Data

Skip

Microdata

Variables

| | |
|---------|---|
| COUNTRY | Country |
| YEAR | Year |
| SAMPLE | IPUMS sample identifier |
| SERIAL | Household serial number |
| PERSONS | Number of person records in the household |
| HHWT | Household weight |
| GEOLEV2 | 2nd subnational geographic level, world [consistent boundaries over time] |
| PERNUM | Person number |
| PERWT | Person weight |
| SCHOOL | School attendance |
| EDUCUS | Educational attainment, United States |
| EMPSTAT | Activity status (employment status) |

Datasets

| | |
|---------------|------|
| United States | 2000 |
| United States | 2010 |

Microdata Extract

Cancel

1

Select Microdata

Variables

12

Datasets

2

2

Attach Area-level Data

Variables

6

Datasets

2

Geographic Levels

Countries

United States (2000, 2010)

Time Frame

Harmonized (Consistent)

Administrative Level

Lowest Level Available

3

Attach Raster Data

Skip

Area-level Data

Variables

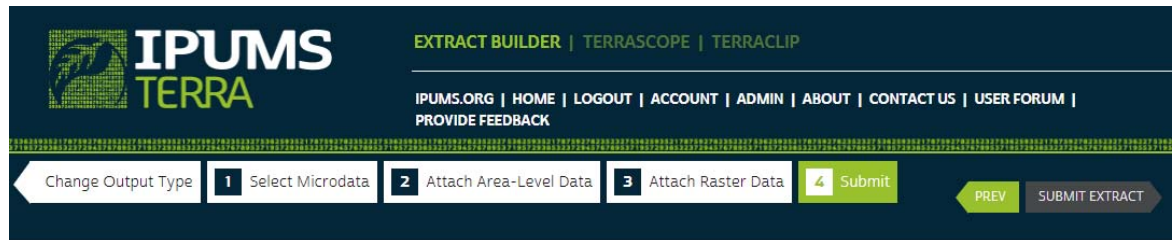
| | |
|--------------|--|
| EDUCLESSPRIM | Percent of persons age 25+ with less than primary education |
| EDUCPRIMARY | Percent of persons age 25+ who completed primary education |
| EDUCSECOND | Percent of persons age 25+ who completed secondary education |
| EDUCTERTIARY | Percent of persons age 25+ who completed tertiary education |
| OCCPROF | Percent of workers in professional or technical occupations |
| UNEMPLOY | Unemployment rate |

Datasets

| | |
|---------------|------|
| United States | 2000 |
| United States | 2010 |

Step 16

Submit
your extract



- Give your extract a short, descriptive Extract Title, maybe, “U.S. education and employment microdata.” The Extract Title will appear in your Extract History.
- If you want the GIS shapefiles for the geographic levels used in your extract, check the box to ***"Include boundary files."*** (Not required for this exercise.)
- Click ***Submit Extract***

SUBMIT EXTRACT

You will receive an email when the extract is ready.

Step 17

Download
your extract

ipums@umn.edu
to me ▾

Your IPUMS Terra extract 'U.S. education and employment microdata' is ready.

To retrieve your data, codebook, and command files, for Extract #3518, go to the link below.

https://data.terrapop.org/user/extract_requests

Thank you for your support.

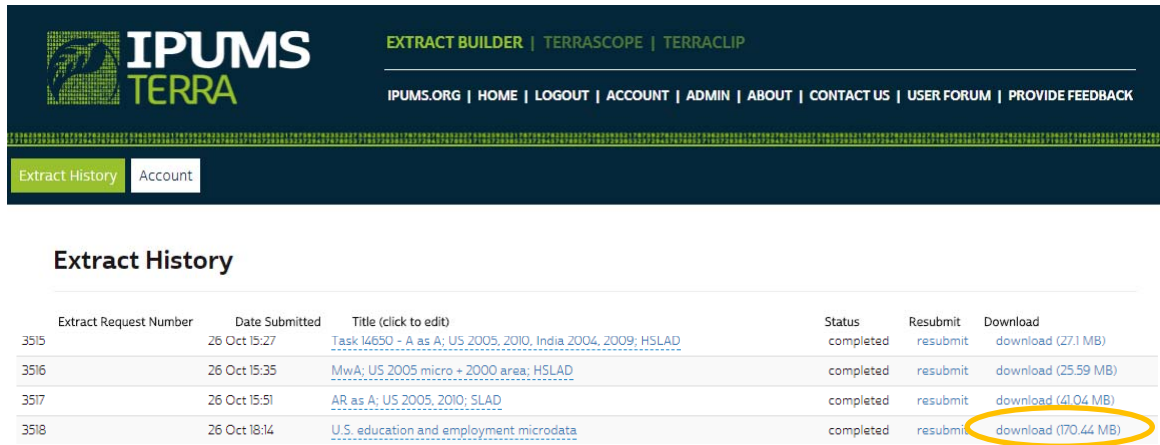
Sincerely,
The IPUMS Terra Team

Step 17

Download
your extract

- To download the data, follow the link in the e-mail, which will take you to your account's "Extract History" page as shown below.

The data will be delivered in a compressed format, make sure you have software available to extract the files.



IPUMS TERRA EXTRACT BUILDER | TERRASCOPE | TERRACLIP

IPUMS.ORG | HOME | LOGOUT | ACCOUNT | ADMIN | ABOUT | CONTACT US | USER FORUM | PROVIDE FEEDBACK

Extract History Account

Extract History

| Extract Request Number | Date Submitted | Title (click to edit) | Status | Resubmit | Download |
|------------------------|----------------|---|-----------|--------------------------|--------------------------------------|
| 3515 | 26 Oct 15:27 | Task 14650 - A as A; US 2005, 2010, India 2004, 2009; HSLAD | completed | resubmit | download (27.1 MB) |
| 3516 | 26 Oct 15:35 | MwA; US 2005 micro + 2000 area; HSLAD | completed | resubmit | download (25.59 MB) |
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