

# Package: CTPPr (via r-universe)

January 2, 2025

**Title** Census Transportation Planning Products Program (CTPP) API

**Version** 1.0.0

**Description** Download Census Transportation Planning Products Program (CTPP) Tables for analysis in R

**Depends** R (>= 3.2)

**Imports** data.table, httr, XML, DT, surveyvisualize

**Remotes** github::Westat-Transportation/surveyvisualize

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**Config/pak/sysreqs** libfontconfig1-dev libfreetype6-dev make libpng-dev libxml2-dev libssl-dev libudunits2-dev

**Repository** <https://ar-puuk.r-universe.dev>

**RemoteUrl** <https://github.com/Westat-Transportation/CTPPr>

**RemoteRef** HEAD

**RemoteSha** 0c4ab13b4af5d201efe557a85c5ae998177a92d7

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ctpp_tables	<i>View CTPP Tables Available for Download</i>
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### Description

This function returns a list of CTPP table identifiers and descriptions. You can click on the ID in the default version to copy an example `download_ctpp()` request to your clipboard.

### Usage

```
ctpp_tables(style = "browser", select = NA)
```

### Arguments

style	"raw" or "r" to return a <code>r</code> <code>data.table</code> object or "browser" (default) to return a javascript datatable
select	character vector of table id's. This will return only the tables specified, which may be useful for presentations or when you would like to hide records by default.

### Examples

```
ctpp_tables()
ctpp_tables("raw")
```

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download_ctpp	<i>Download CTPP Data</i>
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### Description

This function allows you to download CTPP tables into R

### Usage

```
download_ctpp(id, geography = "State", state = "", dataset = "",
  output = "Name")
```

### Arguments

id	The identifier of the CTPP table you want to download (e.g. "A101100"). Type <a href="#">ctpp_tables()</a> for a list of tables and their ids.
geography	The geography level of the requested table. Type <code>ctpp_geography_list</code> to see available geographies, or see Details below.
state	The state your request should subset to. Takes name ("Alabama"), abbreviation ("AL") or FIPS ("01"). Can be comma separated list ("New York, New Jersey"). Type <code>ctpp_state_list</code> to see available states.

dataset	"2010" or "2016" to specify which 5-year dataset to query.
output	How you want your records labelled. Default is "Name" unless geography is "Tract", "TAD", or "TAZ", in which case "FIPS Code" is used to reduce size of request. See Details below for example outputs.

### Value

returns a data.table based on a default option CSV download request (tables available at the [online CTPP browser](#))

### Details

This function makes a bulk download request for the provided table id. Use this function with caution and subset to a specific state for smaller geography requests. See the example section for some recommendations on downloading and storing your results.

**geography:** Bold words below are accepted by geography= For Residence and Workplace Tables:

- **County** - State-County
- **MCD** - State-County-MCD (for 12 strong MCD states)
- **Place** - State-Place
- **MSA** - Metropolitan Statistical Area
- **City** - Metropolitan Statistical Area - EACH Principal City
- **PUMA** - State-PUMA5
- **UA** - Urbanized Area (UA)
- **OUSA** - Worked Outside United States (WORKPLACE tables only)
- **Tract** - State-County-Tract
- **TAD** - TAD
- **TAZ** - TAZ

For Flow (Residence->Workplace) Tables:

- **State->State**
- **County->County**
- **MCD->MCD**
- **Place->Place**
- **City->City**
- **PUMA->PUMA**
- **County->Place**
- **MCD->Place**
- **PUMA->Place**
- **Tract->Tract**
- **TAD->TAD**
- **TAD->TAZ**
- **TAZ->TAZ**
- **TAZ->TAD**

- **Place->TAZ**
- **TAZ->Place**

**state:** Use state= in combination with geography=. If you don't, the requested table will be downloaded for the entire country and may not finish.

**output: Option - Example**

- **Name** - "New York"
- **Key** - "C0300US13001"
- **FIPS Code** - "36"
- **FIPS and Name** - "36 | New York"
- **Split FIPS Code** - "36 | 001"

### Examples

```
A102102 <- download_ctpp(  
  id = "A102102",  
  geography = "County",  
  state = "GA"  
)  
A202100 <- download_ctpp(  
  id = "A202100",  
  geography = "MSA",  
  state = "FL"  
)  
# save your tables for working with later  
save(A102102, A202100, "CTPP-tables.RData")  
# load tables back  
load("CTPP-tables.RData")
```

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