Data Table Schema

chemicals

Data about the measured mean concentration of a particular chemical or substance in community water systems throughout the counties in the United States from 2000 – 2016.

*~882,000 rows & 12 columns.* Size: ~100MB. Source: [Centers for Disease Control and Prevention](https://ephtracking.cdc.gov/).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| cws\_name | STRING | Name of community water system |
| chemical\_species | STRING | Type of chemical contaminant or particulate |
| contaminant\_level | STRING | Classification of contaminant measurement (three types: less than/greater than mean concentration level, non-detect) |
| county | STRING | County name |
| pws\_id | STRING | Public water supply identification code |
| pop\_served | INTEGER | Total population which public water supply serves |
| state | STRING | Name of state |
| unit\_measurement | STRING | Measurement units of the contaminant |
| value | FLOAT | Measure contaminant value, in measurement units |
| year | INTEGER | Year of data measured |
| fips | INTEGER | FIPS code for the particular state+county |
| state\_fips | INTEGER | FIPS code for state |

droughts

Data containing the particular percentage of various range of drought severities, indexed by counties for particular start-end periods throughout the United States.

*~1.35 million rows & 11 columns.* Size: ~100MB. Source: [U.S. Drought Monitor](https://droughtmonitor.unl.edu/Data/DataDownload/ComprehensiveStatistics.aspx).

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| --- | --- | --- |
| Field | Type | Description |
| fips | INTEGER | FIPS code for the particular county |
| county | STRING | County name |
| state | STRING | State code (2-letters) |
| Classification of Droughts (6 total) | FLOAT | Percentage of population affected by severity of droughts by: no drought (none), D0 = abnormally dry, D1 = moderate, D2 = severe, D3 = extreme, D4 = exceptional  [Additional Information](https://droughtmonitor.unl.edu/DroughtSummary.aspx) |
| valid\_start | STRING | Start date of event in form of YYYY-MM-DD |
| valid\_end | STRING | End date of event in form of YYYY-MM-DD |

earnings

Information about industry-specific median earnings (in that year’s USD, inflation adjusted) indexed by counties for all of the United States, taken from 2010 – 2016.

*21,999 rows & 31 columns.* Size: ~5MB. Source: [U.S. Census](https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| geo\_id | STRING | Particular ID used by U.S. Census |
| fips | INTEGER | FIPS code of county as (YYZZZ) |
| county | STRING | Name of county and state in form (county, state) |
| total\_med | INTEGER | Total median earnings in the particular county |
| Median Industry Income (26 total) | INTEGER/STRING | Specific median earnings for various industries. \* There may be instances when the value is “2,500-” or “250,000+” which indicates: '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.  An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution. [Additional Description](https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_1YR_B24031&prodType=table) |
| year | INTEGER | Year of data collected |

education\_attainment

Data containing the educational attainment of the US population by county from 1970 – 2000 and estimates of 2012 – 2016, based on U.S Census Data & American Community Survey.

*16,416 rows & 12 columns.* Size: ~2MB. Source: [U.S. Department of Agriculture](https://www.ers.usda.gov/data-products/county-level-data-sets/download-data/).

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Type** | **Description** | |
| **fips** | INTEGER | | FIPS code of county as (YYZZZ) | |
| **state** | STRING | | State code (2-letter) or country (US) | |
| **county** | STRING | | Name of county | |
| **year** | INTEGER | | Year in which data was recorded for of form YYYY. | |
| **less\_than\_hs** | INTEGER | | Number of people with less than a high school diploma | |
| **hs\_diploma** | INTEGER | | Number of people with only a high school diploma | |
| **some\_college\_or\_associates** | FLOAT | | Number of people with some college (1-3 years) or an Associate’s degree | |
| **college\_bachelors\_or\_higher** | INTEGER | | Number of people with a college or Bachelor’s degree or higher | |
| **Percentages of various educations (4 total)** | FLOAT | | Percentage of each respective educational degree as a total of 100. | |

industry\_occupation

Data containing the estimated working population (16 years and over) for the various industries indexed by counties, taken from 2010 – 2016.

*5,712 rows & 18 columns.* Size: ~0.7MB. Source: [U.S. Census](https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| geo\_id | STRING | Particular ID used by U.S. Census |
| fips | INTEGER | FIPS code of county as (YYZZZ) |
| county | INTEGER | County |
| Various industries (14 total) | INTEGER | Estimated working population in that particular industry |
| Year | INTEGER | Median household income |

water\_usage

Information about particular water usage (irrigation, public supply, crop, etc.) and thermoelectric power generated for counties that were found for the year 2010.

*3,225 rows & 23 columns.* Size: ~2MB. Source: [U.S. Department of the Interior](https://water.usgs.gov/watuse/data/2010/index.html).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| state | STRING | State code |
| state\_fips | INTEGER | FIPS code for state (1-78) |
| county | STRING | Name of particular county |
| county\_fips | INTEGER | FIPS code for the particular county (001-840) |
| fips | INTEGER | Total FIPS of county of form YYZZZ (YY = state\_fips, ZZZ = county\_fips) |
| year | INTEGER | Year of data in form of YYYY |
| population | FLOAT | Total population of county, in thousands |
| Parameters (110 total) | FLOAT/  INTEGER | Information of various water metrics |

water\_usage\_dictionary

Detailed description of each of the fields with units of measurement.

*117 rows & 2 columns* Size: 8KB. Source: [U.S. Department of the Interior](https://water.usgs.gov/watuse/data/2010/index.html).

**NOTE: This is included in the same email which contains the data table heads.**