

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](#).

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](#).

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
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
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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](#).

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
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](#).

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](#).

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](#).

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](#).