**METADATA GUIDE**

**The climatewatch-usemissions dataset**

1. Citation/Link

Friedrich, J., & Ge, M. (2015, June 23). *Climate watch - historical emissions data (countries, U.S. states, UNFCCC)*. World Resources Institute. https://www.wri.org/data/climate-watch-historical-emissions-data-countries-us-states-unfccc

About the dataset: This dataset from World Resource Institute contains formation of six-gas, multi-sector, and comparable data set for all 50 states in the United States from 1990 to 2018.

1. Downloaded date: 03/08/2024
2. How to obtain the dataset?

* Click on this link to direct you to the dataset from the World Resources Institute <https://www.wri.org/data/climate-watch-historical-emissions-data-countries-us-states-unfccc>
* Click the download button right below the title “Climate Watch – Historical Emissions Data (Countries, U.S. States, UNFCCC)”
* A “Download publication” box will pop up, click “No thanks. Proceed to download”.
* Click climatewatch-usemission.xlsx to download the Excel file of this data set

Variables Descriptions:

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| Variable name | Description |
| State | The name of the state in the United States |
| Year | Year |
| Total GHG Emissions Excluding LUCF (MtCO2e) | Total greenhouse gas emissions excluding emissions from land use, land-use change, and forestry (LUCF). Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Total GHG Emissions Including LUCF (MtCO2e) | Total greenhouse gas emissions including emissions from land use, land-use change, and forestry (LUCF). Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Total CO2 (excluding LUCF) (MtCO2e) | Total carbon dioxide emissions excluding those from land use, land-use change, and forestry. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Total CH4 (MtCO2e) | Total methane emissions. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Total N2O (MtCO2e) | Total nitrous oxide emissions. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Total F-Gas (MtCO2e) | Total emissions of fluorinated gases. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Energy (MtCO2e) | Emissions from energy-related activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Industrial Processes (MtCO2e) | Emissions from industrial processes. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Agriculture (MtCO2e) | Emissions from agricultural activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Waste (MtCO2e) | Waste management activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Land Use and Forestry (MtCO2e) | Emissions and removals related to land use, land-use change, and forestry. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Bunker Fuels (MtCO2e) | Emissions from international bunker fuels. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Electric Power (MtCO2e) | Emissions from electric power generation. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Commercial (MtCO2e) | Emissions from commercial activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Residential (MtCO2e) | Emissions from residential activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Industrial (MtCO2e) | Emissions from industrial activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| **Transportation (MtCO2e)** | Emissions from transportation activities. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| Fugitive Emissions (MtCO2e) | Fugitive emissions. Measured in million metric tons of carbon dioxide equivalent (MtCO2e). |
| State GDP (Million US$ (chained 1997/2005)) | Gross Domestic Product (GDP) of the state in millions of US dollars, adjusted for inflation using a chained index to the year 1997 or 2005. |
| Population (People) | Population of the state, measured in number of people. |
| Total Energy Use (Thous. tonnes oil eq. (ktoe)) | Total energy use in the state. Measured in thousand metric tons of oil equivalent (ktoe). |

**The PastrCropbyState dataset**

1. Citation/link

<https://www.ers.usda.gov/data-products/organic-production/>

1. About the dataset: This dataset from USDA contains information of the total number of certified operation and total acreage of certified organic pasture and cropland in 50 states in United States from 2000 to 2011.
2. Downloaded date: 03/08/2024
3. How to obtain the dataset

* Click into this link to direct you into the dataset from the USDA <https://www.ers.usda.gov/data-products/organic-production/>
* Under the Data Set section and State-Level Tables, click “Table 4. Certified organic producers, pasture, and cropland. Number of certified operations, by State, 2000-11. Total acreage of certified organic pasture and cropland by State, 1997 and 2000-11.” The dataset will be automatically downloaded.

1. Dataset description

This dataset contains 12 sheets, each dataset contains the total number of certified operation and total acreage of certified organic pasture and cropland in 50 states in each year.

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| --- | --- |
| Variable name | Description |
| Number of certified operations | The count of certified organic farming operations in each state for the corresponding year. |
| Crops | The acreage of certified organic cropland in each state for the corresponding year. |
| Pasture & rangeland | The acreage of certified organic pasture and rangeland in each state for the corresponding year. |
| Total | The total acreage of certified organic pasture and cropland combined for each state in the corresponding year. |