

This readme file was generated on 2024-07-16 by Adams Bailey.

GENERAL INFORMATION

Title of Dataset: Advancing climate technologies in Eastern North Carolina (NC)

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Date of data collection:
05-15-2023 to 2023-11-30.

Geographic location of data collection:
Counties and census tracts within the state of North Carolina (NC).

Information about funding sources that supported the collection of the data:
This project was a cross-institutional collaborative partnership that includes RTI Research Triangle Park, NC; Duke University, Durham NC; UNC Wilmington, Wilmington, NC; East Carolina University, Greenville, NC; Carteret County Community College, Beaufort, NC. Funding comes from the National Science Foundation, Innovation and Technology Ecosystems, Type 1 Developmental Award, NSF Engine Program. Award ID 2306135

SHARING/ACCESS INFORMATION

Licenses/restrictions placed on the data:
CC0 Public Domain

Links to publications that cite or use the data:
None.

Links to other publicly accessible locations of the data:
None.

Links/relationships to ancillary data sets:
N/A

Was data derived from another source? If yes, list source(s):

- American Community Survey (ACS)
- Bureau of Economic Analysis (BEA)
- Bureau of Labor Statistics (BLS): Local Area Unemployment Statistics (LAUS)
- Bureau of Labor Statistics (BLS): Quarterly Census of Employment and Wages (QCEW)
- Council on Environmental Quality (CEQ): Climate & Economic Justice Screening Tool
- Department of Energy: Low-Income Energy Affordability Data (LEAD)
- Energy Information Administration (EIA)
- Federal Deposit Insurance Corporation (FDIC)

- Federal Emergency Management Agency (FEMA): National Risk Index
- North Carolina Department of Public Instruction (NCDPI)
- USPTO: Patents View
- Small Business Innovation Research Award Database
- USDA: Food Access Research Atlas
- USGS: National Water-Quality Assessment (NAWQA) Project: Pesticide National Synthesis Project

Recommended citation for this dataset:

Cerino, David, Corbett, Reide, Halanych, Kenneth M., Lawrence, Sara, McWhorter, Heather, Silliman, Brian, Bailey, Adams, Bead de Hernandez, Alison, Wilkinson, Jessica. 2023. *Advancing climate technologies in Eastern North Carolina (NC) (Version 1.0)*. North Carolina Ecosystem Technology (NCET) Engine. Duke Research Data Repository. <https://doi.org/10.7924/r4pz5dp17>

DATA & FILE OVERVIEW

File List:

- County data. *NCET_CountyLevel*. Indicators for North Carolina counties. 2023 or most recent data year available.
- Census Tract (2020) data. *NCET_CensusTract2010*. Indicators for North Carolina Census Tracts (drawn by the 2020 Census). 2023 or most recent data year available.
- Census Tract (2010) data. *NCET_CensusTract2010*. Indicators for North Carolina Census Tracts (drawn by the 2010 Census). 2023 or most recent data year available.
- Source. *NCET_Metadata_DataSource*. Source and original citation information for each variable.
- Codebook. *NCET_Metadata_Codebook*. Contains variable names, geographic level available, and topic category of variable.

Relationship between files:

Files are split by geographic designation into County, Census Tracts (2020 designation) and Census Tract (2010). Codebook and Sources contain metadata. Codebook gives additional information for each variable name included in County, Census tract (2020), and Census tract 2010 files. Source provides information on publishers of datasets and original source of public information.

Additional related data collected that was not included in the current data package:

N/A

Are there multiple versions of the dataset?

No.

METHODOLOGICAL INFORMATION

Description of methods used for collection/generation of data:

All data was collected from public sources and cleaned to reflect North Carolina geographies. Data collected was decided by a group process attempting to understand current environmental, economic, demographic, and other trends and the geographic characteristics of Eastern North Carolina.

Variable names are formatted to contain information regarding source, geographic level, and data year.

1) Source, 2) Geographic level (co = county, ct = tract); 3) very basic description. Example:

ACS_ct_cnt_pop25_bachehigher. Data from ACS at census tract level for population count of individuals over 25 years of age with a bachelor's degree or higher.

For specifics on variables, users should pursue user guides and readme files for source databases.

Methods for processing the data:

Publicly available data edited to reflect the most recent data year available (as of 2023-11-01) for the state of North Carolina (unless data year otherwise stated). It was presented by the smallest unit of geographic feasible (county or census tract, or both). In some cases, 2010 versions of census tracts are used. If not labeled as 2010, census tract uses current 2020 delineation and definitions. Where variables were created from existing information, see variable Notes in NCET_metadata_codebook.csv.

Instrument- or software-specific information needed to interpret the data:

N/A.

Standards and calibration information, if appropriate:

N/A

Environmental/experimental conditions:

N/A

Describe any quality-assurance procedures performed on the data:

Data from each source was individually by an analyst to ensure fidelity.

People involved with sample collection, processing, analysis and/or submission:

Adams Bailey, Alison Bean de Hernandez, Jess Wilkinson.

DATA-SPECIFIC INFORMATION

DATA-SPECIFIC INFORMATION FOR: *NCET_CountyLevel.csv*

Number of variables: 377

Number of cases/rows: 100

Variable List: See NCET_Metadata_Codebook.csv

Missing data codes: Blank.

Specialized formats or other abbreviations used: N/A.

DATA-SPECIFIC INFORMATION FOR: *NCET_CensusTract2020.csv*

Number of variables: 98

Number of cases/rows: 2660

Variable List: See NCET_Metadata_Codebook.csv

Missing data codes: Blank.

Specialized formats or other abbreviations used: N/A.

DATA-SPECIFIC INFORMATION FOR: *NCET_CensusTract2010.csv*

Number of variables: 50

Number of cases/rows: 2660

Variable List: See NCET_Metadata_Codebook.csv

Missing data codes: Blank.

Specialized formats or other abbreviations used: N/A.

DATA-SPECIFIC INFORMATION FOR: *NCET_Metadata_Codebook.csv*

Number of variables: 8

Number of cases/rows: 335

Variable List: See NCET_Metadata_Codebook.csv

Missing data codes: Blank.

Specialized formats or other abbreviations used: N/A.

Variable Name	Description
Source	Data Source
Variable Name	Variable name as it appears in other files
Description	Simple variable definition
Category	Topical data category
Geographic Level	Level of observation (county, census tract 2010, census tract 2020, or multiple)

Time Series	Range of years data from source available. Note* NCET database uses most recent year
Notes	User notes, including records of how variable was derived from raw dataset.
Link	Link to original data where applicable.

DATA-SPECIFIC INFORMATION FOR: *NCET_Metadate_Sources.csv*

Number of variables: 5

Number of cases/rows: 14

Variable List: See NCET_Metadata_Codebook.csv

Missing data codes: Blank.

Specialized formats or other abbreviations used: N/A.

Variable Name	Description
Source	Public agency or other publisher of data
Database Name	Name of specific data source, where applicable
Geography	Level of observation (county, census tract 2010, census tract 2020, or multiple)
Time Range	Range of years data from source available. Note* NCET database uses most recent year
Link	Link to original data where applicable.